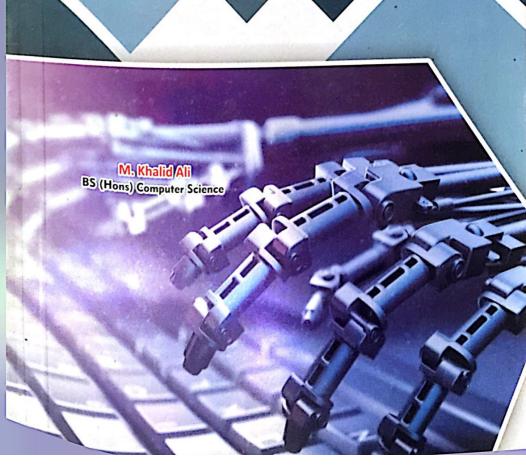


COMPUTER SCIENCE

Intermediate Part-11

CHAPTER WISE SOLUTION OF 9 BOARD SESSION 2012-2019



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OBJECTIVES (MCQ'S) OF CHAPTER-1 ACCORDING TO ALP SMART SYLLABUS 2020-21

1. A collection o	f raw facts and figures	is called:	(3 Times)
(A) data		(C) processing	(D)object
2. Which of the	following may be a ter		(2 Times)
(A) master file	(B) transaction file	(C) backup file	(D) none
3. SQL stands fo	r:	3 700,000	(4 Times)
(A) structure query I	anguage	(B) sort query langu	age
(C) self query langua	ge	(D) seek query langu	lage
4. A database co	onsists of various comp	ponents called:	125 ft St. 31tt (13tt) An
(A) properties	(B) tool	(C) object	(D) entities
Which one of	the following type of	file requires largest	processing time?
		of the state of th	(3 Times)
(A) Sequential file	(B)Random file (C) in	dexed Sequential file (D) Direct Access file
	ent a collection of con	cepts that are used to	describe the
structure of a		122 mal 2	(2 Times)
(A) data ware house	(B) database model	(C) data structure	(D) data type
7. A relation tha	t contains minimal re	dundancy and allow e	asy use is called: (2 Times)
(A) clean		(C) field	(D) well structured
	ated items in a table is	called:	
(A) Table .	(B) Record	(C)field	(D) query
The manipular	ted and processed data	is:	F 1. 12
(A) Object		(C)Figure	(D) information
	following data model		(2 Times)
			(D) Object data model
	ses inconsistency lack		(2 Times)
(A) Good data	(B)Data Integrity	(C) Data redundancy	(D) Data anomaly
	following is not a data		MORGONIA !
(A) table	(B) query	(C) form	(D) MS-Word
	of data to achieve the		
	(B) Operation		
	etrieval of data is relate		
	(B) Data Manipulation (B)		it result(D) None
	(B) Structure	(C)Both a and b	/D) None : Sist
16. SQL is a(n):	(b) Structure		(3 Times)
	guage state of a		
(C) Object oriented I		(D) Software	
	les from functional po		
	(B) Data files		
	following is handled b		(D) None
	(B) Data security		o (D) All
	lication contains proc		ie (b) All
	(B) Deleting records		c (D) Allah a felle
			to as an Inverted Tree?
A) Hierarchical	(B) Network	(C) Relational	(D)object-oriented
	ed records that represe		(2 times)
(a) file	(b) record	(c) field	(d) database
	f table corresponds to		(1 times)
a) table	(b) record	(c) field	(d) cell

(c) File

(c) .ppt

(c) Record

(3 times)

(1 times)

(d) .mdb

(c) program dependency (d) data redundancy

(d) Database

(d) Database

(2 Times)

Relational model

iii.

(a) field

(a) .mdbg

(a) Character

(a) data integrity

23.

24.

26.

5.

Ans:

A logical grouping of characters is a:

(b) record

(b) .msdb

A collection of related fields is:-(b) File

MS Access save the database with the extension.

Duplicate data in multiple data files is called:

(b) data consistency

Each separate piece of information stored in a record is called:

(a) fo 28.			ed to		nform		table	omain		(a) rei	or a long tin
	lata file			ster file				ction			ckup file
29.	A set of										
a) Fie			b) Red		a unu i		Databa			(d) M	
0.	Multiple	•			data					(4)	Judic
	lata integrit								ndancy	/ (d) d	ata isolation
1.	Which of	ATTENDED TO		12 4 7214					10.240		Ta Emily
a)	record		b) field	_	o kilo	(c) f		et.	6000	(d) mo	dulo
2.	a type of				lata is					u) IIIO	uule
a)	data files			ram fil			image	file		(d) Qu	ery file
		gri d			ΔΙ	NSWE	PC		1 /s	1	ness
	1	2	3	4	5	6	7	8	9	10	11
	A	В	A	C	A	В	D	В	Ď	C	B
	.12	13	14	15	16	17	18	19	20	21	22
	7 D	С	C	В	В	C	D	D	Α	Α	C
	23 A	24 D	25 C	26 D	27 B	28 B	29 C	30 C	31 C	32 A	in marcy!
		-			A STATE OF THE PARTY OF THE PAR		-		_		
	What is n	neant l	ov Dat	a Inde	pende	nce?	1 11	TUR ST	C 17 2	d Le l	20-21 (2 Times)
ns:	Data inde	pender	ice me	ans the	it data	and ap	plicati	on pro	grams		
	Ather Inc	IICPI (all tile	HIEC U	ata stu	I GKC 2	uuciiir	PC 3nc	000-	-41-	
	the applic	anon i	JIUKIAI	IIS GIIL	a call (1130 111	ouii v i	DIODES	me wi		
	data. The	usei ca	11 0130	i i i o u ii y	PIOBII	31112 AA	triout	reorga	nizatio	n of da	ata.
ns:	Data into	arity m	eans t	he cor	rrectne	acc an	d cons	ictona			(4 Times) is another
	Data Intel	gilly in	ection	Integ	rity is	relate	d to a	uality	y or d	ata. It	is another
	of databa	se broi	ELLIUI								
	OI uatava	JC PIO			nts.		- 10 q		or data	a. It is	maintained
	the help o	f integ	rity co	nstrair							
	the help o	of integ	rity co	nstrair base?	of logic	e nue	elated	(trout)	medi		(2 Times)
	the help of What is m	of integree is a	rity co	nstrair abase? ction of	of logic	cally r	elated	data	sets (or file:	(2 Times)
	the help of What is m A database contain di may be o	of integreent being a line of the line of	rity co y Data collect type ed in	nstrain abase? ction of of info	of logic	cally r	elated	data	sets (or file:	(2 Times)
	the help of What is m A database contain di may be o	of integreent being a few fixed a few fixed a few	rity co by Data collect type ed in the us	nstrair abase? ction of of info differe ers.	of logic	cally r	elated	data	sets (or file:	(2 Times)
ns:	the help of What is m A database contain di may be o requirement	of integreent being a ferent regarder	rity co oy Data collect type ed in e the us	nstrair abase? ction of of info differe ers.	of logic rmatic nt wa	cally ron and	elated are u meet	data sed fo differe	sets or spec	or file: ific pu ocessi	(2 Times) s. Each file rposes. The ng and retr
ns:	the help of What is may be o requirement What is day	of integreent being a fermion of the	collect type ed in the us	nstrain abase? ction of of info differe ers. g?	of logic rmatic nt wa	cally ron and	elated are u meet	data sed fo differe	sets or specent pro	or file: ific pu ocessi	(2 Times) s. Each file rposes. The ng and reti
ns:	the help of What is may be o requirement What is day	of integreent being a fermion of the	collect type ed in the us	nstrain abase? ction of of info differe ers. g?	of logic rmatic nt wa	cally ron and	elated are u meet	data sed fo differe	sets or specent pro	or file: ific pu ocessi	(2 Times)

software converts raw data into meaningful information.

ii. Network model

The different types of database models are as follow:

Enlist different types of database models.

i. Hierarchical model

6. What is the concept of Consistency constraints? (2 Time

Ans: Consistency means accuracy of data. Constraints are rules or requirements that implements in database management system. Consistency constraints are the rules that must be followed to enter data in the database. If a data does not fulfill these constraints, it cannot enters to the database.

Write two advantages of DBMS.

Ans: Some advantages of DBMS are;

Data independence:

DBMS provides the facility of data independence. It means that the data and application programs are separate from each other. The user can change data storage structures and operations without changing the application programs. The user can also modify programs without reorganization of data.

ii. Data security:

DBMS provides the data security. It is the protection of the database from unauthorized access. DBMS provides several procedures to maintain the data security.

Define the term redundancy.

Ans: Redundancy is a system design in which a component is duplicated so if it fails there will be a backup. It has a negative can notation when the duplication is unnecessary or is simply the result of poor planning.

9. What is Backup file?

Ans: A type of file that is used to take backup important data is called backup file. If data is lost it can be recovered from backup file. Special programs are used to create, and use backup files.

10. Name different types of file organization.

Ans: Types of file organization are as follows:

i) Sequential file organization.

ii) Heap file organization.

iii) Hash file organization.

iv) B+ file organization.

v) Indexed sequential access method (ISAM).

vi) Cluster file organization.

11. State the use of query language. (3 Times)

Ans: SQL (Structure Query Language) is used for creating table structures, entering data into them and retrieving/updating the selected records, based on the particular criteria and format indicated, within the databases.

12. State the use of index in FMS. (2 Times)

Ans: Index are used to maintain the data in order. The order can be ascending or descending. Index is a value in fact which is known as key value. On the basis of that key value, order of data is maintained. On the basis of that index, data is retrieved and inserted.

13. Why File Organization is important in a database Design? Give two reasons. (2 Times)

OR What do you mean by File organization?

Ans: The technique for physically arranging the data on secondary storage like hard disk etc is called file organization. It is necessary because it tells the order in which data will be maintained on disk and how it will be represented when it is inserted and retrieved. If a good file organization will be used then data access and insert process will be fast.

14. What is data dictionary? OR use of Data Dictionary (4 Times)

Ans. Data dictionary is a file that is used to store data definitions or description of structure of data used in database. It may also monitor the data that is used. It is also called repository.

15. Name four database objects......

Ans. i) Data ii) Hardware iii) Software iv) Personnel

Describe term information? (3 times)
 Processed data is called information. It is also known as output. It is used to make decisions.

17. List any two objectives of DBMS.

ii) Availability Data integrity Shareability (iii) Evolvability (iv) Ans.

List two advantages of file indexing? (2 times) 18.

ii) It is fast than sequential method i) Index always refers the exact location on disk. Ans.

19. Define data inconsistency?

Inconsistency means that two files may contain different data of the same entity, Ans. For example, the address of a student must be updated in all files if any change occurs. It is possible that it is changed in Student file but not in Library file. The data becomes inconsistent in this situation.

(4 times) 20. What is the purpose of backup and recovery?

Backup means to store an additional copy of data. The data can be recovered from Ans. this file if the original files are mostly created by using specific software utilities.

21. Define data?

Raw facts and figures is called data. It is unprocessed (i-e collect information of Ans. student from admission form).

Any two differences between file processing and database approach? 22.

DB approach Ans. **File Processing** i) Here data is not duplicated i) in file processing, data may be and appears only once. duplicated in different files provides many cause data redundancy.

ii) It is difficult to apply integrity checks on files.

Define data file. 23.

A type of file that contains data is called data file. Data files are created by the Ans: software being used. For example Notepad s a type of text file with extension .txt.

OR Files names from usage 24. List any two file types from usage point of view. (2 times) point of view.

The types of files from usage point of view are as follows: Ans. Master File ii. Transaction File

constraints of data integrity.

List any two problems in traditional file approach. 25.

Data redundancy * ii. Data inconsistency Ans. Security problem III. Integrity problems · iv.

Define data manipulation. 26.

The process of applying different operations on data is called data manipulation. It Ans. includes the following operations:

b. calculation c. sorting d. summarizing a. Classifying

27. Describe network model.

Each record in this model is called a node. A higher level node is called parent and Ans. lower level node is called child. The child node can have more than one parent nodes. The child nodes are represented by arrows in this network.

What is the use of DML? 28.

Ans. DML stands for Data Manipulation Language. It consists of SQL commands that are used to load update, query and the database using SELECT Commands. DML Commands include INSERT, UPDATE and DELETE.

29. List three examples of database system.

Ans. Library Management System.

School Management System. ii.

iii. Account Management System. 30. Write shortcut key to compile and run C program. (1+1)

Ans. i. Compile → Alt+F9 ii. Run → CTRL+F9

31. What is database system? OR What is the purpose of database system? (2 times)

Ans. It is a collection of data as well as programs required to manage that data. It is a computerized record keeping system. Its purpose is to maintain data and provide it to the user when it is required.

32. Why do people use database?

Ans. People use database to retrieve the data quickly and easily. Database can store large amount of data efficiently. It allows the user to display and distribute data in many ways.

Difference between database and database management system. (2 times)

33. Ans.

. Database	DBMS				
A collection of related data is called database.	A collection of programs to create and maintain databases is known as database management system.				

34. What is the use of DDL?

Ans: DDL stands for Data Definition Language. It consists of SQL commands used to define a database, creating tables, indexes and views. Some important commands of DDL include CREATE/DROP TABLE, ALTER TABLE, CREATE/DROP VIEW etc.

Differentiate between data redundancy and data inconsistency?

35. Ans:

 Data redun	dancy	Data inconsistency
redundancy ation of data in n wastage of stora		Data inconsistency means two files may contain different data of the same entity.

36. Why is report generator used in database system?

Ans: Report generator is used to produce reports. It retrieves data from database and displays it in different formats. The user can use report generator to format page number, dates, titles and column headings etc.

37. Why is it important to specify data type and size of a field?

Ans: The data type of a field specifies the type of data that can be stored in the field. A field size defines the maximum number of characters that can be stored in a field.

LONG QUESTIONS OF CHAPTER-1 ACCORDING TO ALP SMART SYLLABUS 2020-21

List two examples of database system?

(2 Times)

- 2. Define database system. Explain any three components of database system. (3 times)
- 3. Explain database management system. Discuss any three advantages of DBMS (2 Times)

What is a File? Explain three types of Files from usage point of view.

- 5. Briefly describe the four advantages and four disadvantages of database management system? (4 Times)
- How a table/ relation is formed up in DBMS? Write down the properties of relation in detail.

OBJECTIVES (MCQ'S) OF CHAPTER-2 ACCORDING TO ALP SMART SYLLABUS 2020-21

1. A relation is a	also known as:		(6 Times)
(A) table		(C) relationship	(D) field
2. A table must		on a talking of the	(7 Times)
	(B) secondary key	(C) composite key	(D) sort key
3. A relation is	analogous to a:		and the state of t
(A) row	(B) field	(C) record	(D) file
4. Which of the	following is not inclu	ded in the definition	of entity:
(A) person		(C) concept	/=\!
5. No. of primar	y keys can exist in a t	able:	This plant is
(A) one	(B) two	(C) three	(D)four
6. Which of the	following key does no	ot hold uniqueness pr	operty?
(A) candidate key	(B)foreign key	(C)primary key	(D)secondary key
Which one of	the following is used	to associate entities	with each other?
		(C)entities	(D) cardinals
8. Foreign key is			(2 Times)
(A) parent table	(B) dependent table	(C) pivot table	(D) index table
The selected	candidate key is calle		and the state of t
	(B) foreign key	(C) super key	(D) composite key
10. DBA stands for		e comparation of the	· · · · · · · · · · · · · · · · · · ·
(A) Database Adminis	strator	(B) Data basic Admir	nistration
(C) Database Applica	tion	(D) Database author	ity
	sional table of data is		(D) Relation
	(B) Set	(C) Declaration	(D) Relation
12. A key is:	200 100	(D) The make Immed	ant field in a record
(A) A field that identi	fies only one record		ant neid in a record
(C) The first field of to		(D) None	and the second
(A) Social socurity pu	following is NOT a go	or primary key.	(D) Student ID numbe
(A) Social Security III	sted below is the mos	t appropriate primar	kev:
(A) A person's name	sted pelow is the lifes	(B) A person's street	address
(C) A person's birth d	ate	(D) A salesperson's r	
15. One field or o	ombination of fields	or which more than o	one record may have the
	ation of values is calle		
(A) Secondary key			(D)Linked key
16. An attribute	in a relation of a data	base that serves as th	e primary key of anoth
relation in th	e same database is ca	lled a?	
	(B)Link key		(D) None
17. Which of the	following is also know	vn as control key:	(2 times)
(A) Secondary key	(B) candidate key	(C) Composite key	(D) Primary key
The same of the sa	7 F F S		led: (2times)
18. The process of	of arranging data in a l	ogical sequence is cal	(d) Classifying
	(b) Summarizing is used to store data	(c) Capturing	(2 times)
		(c) Form	(d) Report
(a) Macro	that consists of more		
20. A primary key (a) Secondary key	(h) foreign key	(c) composite key	(d) sort kev
	of a relation correspo		(3 times)
21. The columns (a) Table	(b) Record	(c) Field	(d) cell
	unique:	a ser (2 ., bell	(0) (0)
(a) primary key	(b) Candidate key	(c) Foreign key	(d) Secondary key
	following can be a pri		(5) 0000
	(h) Salary		(d) Region

Insert command is used to insert: 24.

(b) A new record (a) A new table (c) A view (d) Dependencies

A virtual table that is constructed from other tables is called: 25. (b) Table

(a) (d) Tuple view (c) Relation Insert command is used to insert: 26.

A New Record (b) A New Table (a) (c) A View (d) Dependencies AICIAIEDE

			3.		AIV.	SVVER	3					
1	2	3	4	5	6	7	8	9	10	11	12	13
Α	Α	D	D	Α	D	В	В	A	A	D	D	С
14 .	15	16	17	18	19	20	21	22	23	24	25	26
D	C	C	C	Δ	R	-	•	Δ	C	R	An	A

SHORT QUESTIONS OF CHAPTER-2 ACCORDING TO ALP SMART SYLLABUS 2020-21

Define Foreign key. (2 times)

Ans: A foreign key is an attribute or set of attributes in a relation whose values match a primary key in another relation. The relation in which foreign key is created is known as dependent table or child table. While other table is called parent table.

2. Who is Data Administrator? (6 Times)

Ans: A data administrator is a person who is responsible for entire data of an organization. He normally develops the overall functional requirements for the database being used in the office. He controls and manages the whole data of database system.

3. What is the difference between Primary key and foreign key?

Ans: Primary key is an attribute or set of attributes that uniquely identifies record in a table. Foreign key is attribute or a set of attributes whose values match with primary key in another relation.

4. · Define the term relation.

Ans: A relation is used to store information about an entity. It is another name of a table. It consists of rows and columns. It is defined as: Student(name,roll no,marks,average) Student is name of relation/table. While name, marks average are the fields or columns of the table.

5. Define entity. (3 times)

An entity is anything about which you want to keep information in the database. Ans: The entity must have a unique identifier. The identifier is composed of one or more attributes.

6. What is primary key?

Primary key is attribute or set of attributes that uniquely identify record in a Ans: table. Every relation/table must have a primary key. Only a single primary key can use in a relation. It is underlined in a relation. i.e.

Address Reg no Name Contact

Here reg_no is a primary key.

7.

List different types of keys. (2 times)

Ans: i. primary key ii. candidate key iii. composite key or concatenate key iv. alternate key v. foreign key vi. sort key vii. secondary key

8. Differentiate between primary and secondary key. Ans:

Secondary key Primary key Secondary key is non-unique attribute. Primary key is attribute or set of An attribute or set of attributes that is attribute that uniquely identify record basis for retrieval is known as secondary in a table. Every table has only one key. One secondary key value may refer primary key. to many records.

Define composite key. 9.

A primary key that contains two or more attributes is called composite key. For example Ans: : Roll no and Subject both attributes are used to identify each tuple in a relation. Example:

Roll No.	Subject	Marks
1	English	52
1	Math	77
1	Computer	64
2	English	58
2	Math	69

Differentiate between candidate key and primary key.

10. Ans:

12th Class

Candidate key	Primary key
A relation has more than such attributes or combination of attributes, each is called candidate key. i.e. any key that can be act as primary key is	attributes that uniquely identify record in a table.

11. Who is a database administrator?

A database administrator is an important person in the development of any Ans: database system. He is responsible for the design, implementation, operation, management and maintenance of database system. he must be a technically competent and a good manager.

What is Secondary Key? 12.

candidate key.

A field or combination of fields that is basis for retrieval is called secondary key, it Ans: is a non-unique field. One secondary key value can be refer to many records. (2 Times)

13. Who is End User?

A end user is a person who use computer for his own need. He might have a Ans: moderate knowledge of computer, computer science and information technology. He does not need to know in depth knowledge of computer system.

Differentiate between Fixed Length Field and Variable Length Field. 14.

A fixed length contains a predefined numbers of characters (bytes). The data Ans: cannot be exceed then the allocated length of the field. A variable length field cannot have a predefined number of characters (bytes). It occupies the space according to the data entered by the user.

Write two responsibilities of a Database Administrator.? 15. 1. He assigns different permissions to the database users. Ans:

2. He monitors the database system and solving the different problems that occur in the DB system.

What is meant by data modeling? 16.

Data modeling is the process of identifying the data objects and the relationship between them.

Define key? 17.

A key is an attribute or set of attributes that uniquely identifies a tuple in a Ans. relation. They are also used to create relationship between different tables.

What is the basic purpose of using view? 18.

It keeps the data safe and secure from unauthorized and illegal users. Views Ans. provides descriptions of relations that are not stored but needed from stored relations. It also provides flexibility in displaying data.

Write three important characteristics of a primary key? 19.

Ans: A relation can have only one primary key.

ii. Each value in primary key attribute must be unique.

iii. Primary key cannot contain null values.

20. Why are keys defined in tables?

The keys are defined in tables to access or sequence the stored data guickly and Ans: smoothly. They are also used to create relationship between different tables.

OBJECTIVES (MCQ'S) OF CHAPTER-3 ACCORDING TO ALP SMART SYLLABUS 2020-21

	he database in comput		
	(B) physical design		(D)implementation
An entity is	related to itself in an EF	RD model refers to:	(4 Times)
(A) recursive relat	ionship	(B) one-to-many	. (4)
(C) many-to-many		(D) one-to-one	
	ute is also known as	s a:	(3 Times)
· · · · · · · · · · · · · · · · · · ·	(B)table	(C) row	(D)field
Cars and p	arts are example of:		
(A) concepts	(B) attributes ER diagram is used for	(C) entities	(D)none of these
5. The	_ ER diagram is used for	or:	(2 times)
(A) entity	(B) attributes	(C) group	(D)relationship
6t	ypes of relationship	can be used:	
(A) 2	(B) 3	(C) 4	(D)5
The category	ory of data that describe	es an entity is	(2 Times)
(A) Attribute	(B) Data item	(C)Record	(D) tuple
Which of t	the following is used to	associate entities with	one another:
		(하나나라 의문사 함)	(4 Times)
(A) Entity	(B) Attribute	(C)Identifier	(D) relationship
9. In an E-R	diagram, a rectangle rep	presents (n) :	(4 Times)
(A) attribute	(B) entity	(C) relationship	(D) field
10. Which of	following is used to def	ine objects and describ	e their characteristics:
		A STATE OF THE STA	(4 times)
(A) Attribute	(B) Relationship	(C)Both a and b	(D)None
11. Which of	the following is an exam	ple of one-to-one relat	ionship?
(A) Student-RegN		(B)Person-automob	
(C)Mother-daugh		(D)Person-phone nu	
12. Which is	NOT included in the		
(A) Person		(C) Concept	(D)Action
13. The relation		A 100 C	
(A) One-to-one	(B) One-to-many	(C) Many-to-many	(D)AII
14. Physical da	tabase design decisions	must be made careful	ly because of impacts on
	ility (B) Response times		
	elation is important		du les manifestation
	s may need to be integr		a province that you is feet.
(B) New data req	uirements may produce	new relations to be me	erged
(C) Both a and b	and the same of	(D)None	And areas to the street
	following components o		ign except?
	and usage analysis		
(C) File organizat		(D) Normalize the R	
17. Which of	the following activities		
	gram (B) Decision Tabl		(D) All
	the following is related		THE STATE OF THE S
(A) Optional	(B) Mandatory	(C) Unidirectional .	(D) Both a and b
	the relation is also		
	on (B) View entities	(C) Both a and b	(D)None
	e of relation refers to t	and the second s	(3 times)
(a) rows	(b) tables	(c) data	(d) columns
	rdware costs are consid		. (4 times)
(a) project planni		(b) requirement an	
(c) feasibility stud		(d) data analysis	94 (46 (45 9) - 25 0 12
. ,		(-,	P. C. Control

26.

In an E-R Diagram, a diamond represents a(n): 22. (a) entity (b) attribute (4 times) (c) relationship Customers, cars are examples of: (d) easier programming 23. (3 times) (a) Entities (b) Attributes A database consists of various components called: 24. (d) Relationships (a) Tools (b) Properties (c) Entities (d) Objects 25.

Which of the following is a one-to-many relation? (a) Mother-daughter (c) both A and B

(b) Person-Date of Birth

A person name, birthday and social security number are example of: (a) Attributes (c) relationship (d) Descriptors

1	2	3	4	-	MIA	SWER!	5				1 / 53	
В	A	D	В	^	6	7	8	9	10	11	12	13
14	15	16	17	18	B	A	D	В	Α	A	D	D
C	D	D	D	10	19	20	21	22	23	24	25	26
				A	A	D	С	С	A	D	В	A

SHORT QUESTIONS OF CHAPTER-3 ACCORDING TO ALP SMART SYLLABUS 2020-21

What is Project Planning? 1.

A comprehensive planning and schedule must be developed to complete the Ans: project successfully. All cost factors are also taken into consideration. Different

- salaries of team members.
- Logistics and hardware costs.
- List two properties of a relation. 2.

The relationship can be. Ans:

One-to-one iii. Many-to-many ii. One-to-many

iv. Recursive.

Define an attribute. Give an example. 3.

The characteristics or properties of an entity are called attributes. An entity may Ans: have many attributes. For example Name, Address, phone No, and class are some attributes of the STUDENT entity.

What are Relationships? 4.

(3.Times)

A logical connection between entities is called relationship. The relationship Ans: indicates how entities are connected to each other. For example, there is a relationship between MANAGER and DEPARTMENT. A manager manages the department, on the other hand a department is managed by a manager. This leads to a relationship called "MANAGER and Department.

Define Entity or Object. 5.

(2 Times)

Anything that is participating in system is known as entity or object. An entity can Ans: be person, place or thing for which data is collected and maintained, i.e. teacher, student etc.

List two data distribution strategy. 6.

1. Centralized: all data is located at a single site in this strategy. Ans:

2. partitioned: database Is divided into partitions and fragments.

7. List out two types of relationship.

1. One-to-one relationship Ans:

2. one-to-many relationship

8. Write the use of ER-diagram.

Ans: An E-R diagram is a graphical representation of entities in a database and relationships between them. It tells the basic structure of the relations of the entities and how they associate with each other. Rectangle represents entity, diamonds are used for relationships and oval is used to represent attributes.

Name the symbols used in E-R model for attribute and entity.

Ans: Oval shape is used for represents attributes. And rectangle is used for entity.

10. Define Modality?

Ans: Minimum number of instances of one entity associated with each instance of the related entity. It describes the relationship as mandatory or optional. When minimum number of instances is zero, relationship is optional., Relationship is mandatory when minimum number of instances is one or more.

11. List advantages of RDBMS.

Ans: 1. Easy to use. 2. Secure. 3. Data manipulation. 4. Better integrity. 5. Provide physical data independence.

12. What is Analysis in Database? OR What is the purpose of Analysis? (3 Times)

Ans: A process of studying the existing system is known as analysis. The basic purpose of analysis in DB is to know which activities are performed in the current system. Analysis also determines what should take place in DB to make it consistent and more efficient.

13. Define Cardinality. (3 Times)

Ans: The number of entity occurrences associated with each occurrence of the related entities known as cardinality tells us that how much occurrences of the entity take place with respect to other related entity tells us the maximum number of relationships. It maybe one or many.

14. State the objective of physical database design.

Ans: The major objective of physical database design is to implement the database as a set of records, files, indexes and other data structures.

15. List any two activities involved in Data Analysis.

Ans: 1. Data flow diagram (DFD). 2. Decision tables. 3. Decision trees.

16. Give two examples of Entity.

Ans: Examples of entities are as follow:

Person: teacher, player, doctor

2. Place: country, city

17. Write the names of two relationship types?

Ans. i) One to one relationship.
ii) One to many relationship.

18. Difference between degree and cardinality of a relation?

Ans. Cardinality

i) The number of entity occurrence with related entity is known as cardinality.

Degree
i) It is relation.

ii) Cardinality specifies maximum number of relationships.

i) It is no. of attributes of its relation.

ii) No. of associations among two or more entities.

19. State the purpose of feasibility study? OR Why feasibility study is used?
(4 Times)

Ans. It is also called preliminary investigation. It is conducted to investigate the required database system. It determines whether the proposed system is affordable, possible and acceptable. It also determines whether the area of project should be first.

20. Define the term degree of a relation?

Ans. The number of entity occurrences associated with each occurrence of the related entity is known as degree of relationship.

21. Why requirement analysis is conducted?

Ans. It is conducted to collect the requirements for the project. These requirements include the possible inputs for database and required functionality of the project.

23. Ans.	Distinguish between Entity and Entit	y Instance.
	Entity	Entity Instance
	Anything that is participating in the system is known as entity. An entity can be a person, place,	A member of an entity class is known as an entity instance. For example STUDENT can be an
	thing or event.	entity class and a student Tahir can be entity instance.
24.	Write any two criterias to select file	organization.
Ans.	The criteria to select file organization i. Efficient use of storage space. ii. protection from failure or data los	The second secon
25. Ans:	Differentiate between cardinality and	d modality?
	Cardinality	Modality
	The maximum number of	The minimum number of
	instances of one entity associated	instances of one entity associated
	with each instance of the related	with each instance of the related
	entity is known as cardinality.	entity is known as modality.
26.	How is database integrity maintained	
Ans:	Database integrity is maintained with	
	They get like a charle on the incoming	gned to keep data consistent and correct.
	enforce integrity of the data.	data. DBMS provides several mechanisms to
27.	What is the purpose of logical databa	co decign?
Ans:		ibes the data stored in the database. It
7 1113.	contains the definition of the data to	be stored in database. It also contains the
		ture and type of data. It is the complete
	description of data stored in database	
	OBJECTIVES (MCC	('S) OF CHAPTER-4
		IART SYLLABUS 2020-21
1.	Different attributes in two different t	ables having same name are referred to as
(A) syr	nonym (B)homonym · (C)acronym (D)mutually exclusivenes
2.	The goal of normalization is to:	(2 Times)
		B) get stable data structure
	rease redundancy	(D) none of these
3.	In 3NF, which form of dependency is notional (B) non-functional	
4.		C) associative (D)transitive ent names but same meaning are called:
		(2 Times)
_	monyms (B) aliases (C)synonyms (D) alternate attribute
5.	Which of the following anomalies res	
	sertion (B) Modification (GEVery relation must have:	C)Deletion (D) All
6. (Δ) Pri		(2 Times) (C) Secondarykey (D) Mutually exclusiveness
7.		y value must match a primary key value in
	the other relation is called:	, west mater a primary key value
(A) Ref		3) Key match rule
(C) Ent		O)Foreign/primary match rule

Identify name of entity and primary key in the following STUDENT (Student ID.

STUDENT

Student ID.

22.

Ans.

St, name)

Entity_ Primary key

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	ation tha											
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0. In 2N	IF, which	form o	f depe	ndency	y is ren	noved:			Times			
) Function	nal	(B) Par	rtial		(C)	Associa	ative	(D) Tran	sitive		
1. A fur									ributes	is cal	led?	
) Partial fu							non-key					
) Transitive					(D)N							
2. A cor	etraint h	etwee	two a	ttribu	toc ic c	allad						
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Non-key		S					ibutes					
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		-				-						,,

SHORT QUESTIONS OF CHAPTER-4 ACCORDING TO ALP SMART SYLLABUS 2020-21

Define Determinant.

A determinant is an attribute whose value enables us to obtain the values of other related attributes. It appears on the left side of a functional dependency. Thus, in $A \rightarrow B$, the determinant is A.

What are database anomalies? Only list their names. (4 Times)

Database anomalies are the errors/mistakes that occur due to duplication of data in the relations. These anomalies affect the process of inserting, deleting and modifying data in the relations. Important data may be lost if a relation with database anomalies is updated. Following are the types of anomalies. i. Insertion anomaly ii. Deletion anomaly iii. Modification anomaly Define 3rd Normal form. OR When is a relation in 3NF? (4 Times)

A relation is said to be in 3rd normal form if it is in 2Nf and no transitive ns: dependency exists. The transitive dependency is an important factor in normalization. A relation will not said to be in 3NF if the value of non-key attribute can be obtained by knowing the value of another non-key attribute.

What do you mean by entity integrity?

ns: It is constraint on a primary key value. It is stated that any attribute of primary key cannot contains null value. If primary key contains null value then it is not possible to uniquely define the tuple or record assures that it should be easy to identify each entity in database.

Define entity integrity? (2 times)

The entity integrity is a constraint on primary key value. It states that ns. any attribute of a primary key cannot contain null value. Entity integrity ensures that it should be easy to identify a record in relationship. How referential integrity can be achieved?

ns. It is constraint on a foreign key value. It states that if a foreign key exists in a relation then foreign key value must match the primary key value in parent relation. It is achieved by connecting two relations by specifying relationships between them. When two relations are connected, one relation is called parent while other relation is called dependent relation.

How second normal form is achieved? OR When a relation in second Normal 7. form? (2 Times)

It is achieved when: Ans.

> The primary key contains only one attribute. i)

Relation should be in first normal form. ii)

Every non-key attribute is functionally dependent on the full set of prima iii) key attributes.

Define partial dependency? 8.

A type of dependency in which one or more non-key attributes are functional Ans. dependant on a part of primary key is called partial dependency.

Define transitive dependency? 9.

(2 Times)

It is a type of a functional dependency between two or more non-key attributes Ans. exist if non-key attribute depends on other non-key attribute.

10. Write two types of anomalies?

Ans. Insertion anomaly

Suppose a new course "Programming" is to be inserted in the relation, T new course title can not be inserted without inserting Emp_ID as primary k consists of Emp_ID and course title.

ii) **Deletion anomaly**

suppose the record of Emp_ID 140 is to be deleted. The data of MS-Exc will also be deleted along with that employee.

11. Define repeating group?

The term "repeating group" has also come to be used informally and imprecise Ans. by database designers to mean a repeating set of columns, meaning a collection colours containing similar kinds of values in a table. This is different to its origin meaning in relation to 1NF.

12. Define mutual exclusiveness of data?

Ans. The data that does not have overlapping information is known as mutual exclusive data. It creates problem in cases where values are "Yes/No".

13. What is a functional dependency? Ans. It is a relationship between two attributes. It states that if the value of one attributes

(2 Times)

is known, it is possible to obtain the value of another attribute e.g Roll No. Marks. 14. Differentiate between full functional dependency and transitive dependency.

Ans.

Functional dependency	Transitive dependency
It is the relationship between two	
attributes. It states that if the value of one attribute is known, it is possible to obtain the value of another attribute.	

15. Differentiate between cardinality and modality?

Ans:

Cardinality	Modality
The maximum number of instances of one entity associated with each instance of the related entity is known as cardinality.	one entity associated with ea

16. How is database integrity maintained?

Ans: Database integrity is maintained with the help of integrity constraints. The constraints are the rules that are designed to keep data consistent and correct. They act like a check on the incoming data. DBMS provides several mechanisms to enforce integrity of the data.

17. What is the purpose of logical database design?

Ans: The logical or conceptual model describes the data stored in the database. It contains the definition of the data to be stored in database. It also contains the rules and information about the structure and type of data. It is the complete description of data stored in database.

C

20

D

В

19

D

В

21

OBJECTIVES (MCQ'S) OF CHAPTER-5 ACCORDING TO ALP SMART SYLLABUS 2020-21

(A) table (B) query (C) form (D) MS. Word is used to retrieve data from one or more tables: (A) macro (B) table (C) query (D) form (A) Tools (B) Properties (C) Entities (D) Objects (A) Tools (B) Properties (C) Entities (D) Objects (A) Which of the following object of database is used to retrieve data from databa (A) Queries (B) form (C) Report (D) Tables (A) Table (B) Form (C) Report (D) Query (B) Form (C) Report (D) Query (C) Report (D) Query (D) Tables (E) Form (C) Table (D) Query (E) Which object is used to retrieve data from database and present in formative way? (E) Microsoft Access saves the database with the extension: (3 Times) (A) Microsoft Access saves the database with the extension: (3 Times) (A) Microsoft Access saves the database with the extension: (3 Times) (A) Microsoft Access table contains: (A) Distinct (B) Related (C) Designed (D) All (B) In MS Access table contains: (A) Records but no fields (B) Fields but no records (D) Which option in MS Access is used to create a new database from scratch? (E) Both records and fields (D) None of these (D) Which option in MS Access is used to create a new database from scratch? (A) Access template (B) Blank Database (C) Existing Database (D) New Folder (B) A What is the default field size of a Text data-type in MS-Access. (5 time (a) CTRL+N (b) CTRL+S (c) CTRL+O (d) CTRL+Z (d) CTRL+N (b) CTRL+S (c) CTRL+O (d) CTRL+Z (d) Text (b) memo (c) Character (d) Field (d) MS-Power Point (e) The extension of image file is: (a) exl (b) Joc (c) Lomp (d) Information (b) Records one character only. (a) Text (b) MG-Access (c) MS-Excel (d) MS-Power Point (b) Records (d) MG-Power Point (d) Microsoft Access (d) MG-Power Point (e) The extension of adatabase using. (a) (d) MG-CCC-CRC (d) MG-Power Point (b) Occ (c) Report (d) Macros (d) MG-Access (d) MG-Power Point (e) Query (b) Common standards (c) Report (d) Macros (d) Form (b) Query (c) Report (d) Macros	100111 -604	following la and	datahan ahinda	(2 Times)
is used to retrieve data from one or more tables: A) macro (B) table (C) query (D) form (B) A database consists of various components called (B) From (C) Reports (C) Entities (D) Objects (D) Children (C) Reports (D) Tables (D) Tables (D) Tables (D) Table (B) Form (C) Report (D) Query (D) Table (D) Table (D) Query (D) Table (D) Query (D) Table (D) Query ((3 Times)
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A Plus Computer Solved Paper(ALF 5...

SHORT QUESTIONS OF CHAPTER-5 **ACCORDING TO ALP SMART SYLLABUS 2020-21**

List different buttons available on Access database window.

(2 Times)

Different buttons in the database window are as follows:

Tables

Queries

Forms

Reports

Pages

Macros

modules

Define IDE. OR What do you mean by IDE? 2.

Ans: IDE stands for integrated development environment. It is a collection of facilities provided to the users. It is used to create database and database applications. An IDE simplifies the tasks of creating and using database.

What is extension of Database file in MS Access? 3.

The extension of database file in MS access is .mdb. Ans:

Write down two database objects in MS. Access. (2 Times)

Ans: Following are the database objects in MS. Access:

1. Tables

2. Query

3. Forms

4. Reports

What is Microsoft Access? 5.

Ans: MS access is one of the most popular and powerful relational database management systems. It provides various built in features to the users. These features help the user to create database and view information. It can store large amount of data and also process it.

What is Data Base Wizard? 6.

(4 Times)

Database wizard is a set of steps that guides the users to create a database easily. Ans: It includes choosing a template, selecting fields, making customizations, adding pictures and databases.

What is meant by sample databases? 7.

These applications help the user to learn about tables, forms, queries and reports. Ans. User also understand the interconnection of these objects to form a database system.

List out any two advantages of MS-access? 8.

MS Access provides the facility of sample databases. Ans.

MS Access provides the facility of ample Wizards.

Define term RDBMS? OR What do you mean by RDBMS? 9.

RDBMS stands for relational database management system. It is a collection of Ans. programs which are used to create and maintain relational databases. A database in which data is stored in relation is called relational database. Relation is another term used for table. A table in database has a unique name and identifies its contents.

Write the use of data window is MS Access. 10.

It is used to organize all objects in the database. It is divide into two parts. The left Ans. side contains seven buttons used to develop database application. The right side displays the lists of different objects.

Define form? 11.

Ans: A graphical interface used to interact with the database is called form. It is used to enter, retrieve, change, delete or update data in the database.

OBJECTIVES (MCQ'S) OF CHAPTER-6 ACCORDING TO ALP SMART SYLLABUS 2020-21

1. To find a na	me that starts with S	, the criteria is written a	is:
(A) S#?	(B) S#	(C) ?S	(D) S*
	al query tool is know		(4 Times)
	(B) design grid		(D)design form
	of a query is in the fo		(2 Times)
(A) table	(B) form	(C) report	(D)query
	place command is fou		(4 Times)
	(B) file menu		(D) view menu
5. A logical gro	ouping of character is		
(A) file	(B) record	(C) field	(D) all of these
6.	table views are avail	able in MS-Access:	(2 Times)
	(B) 4 3	(C) 2	(D)1
	table is entered in:	Carolina Albara Mar	(4 Times)
(A) design view	(B) normal view	(C) data sheet view	(D)layout view
8. Insert comm	nand is used to insert	per 1 2 men o	of the services
	(B) a new record	(C) a view	(D)dependencies
9. What symb	ol indicates that you a	are editing a record?	(2 Times)
(A) Pencil	(B)Black arrow		(D) asterisk
		ece of information is ca	
(A) field	(B) record	(C) entity	(D) attribute
11. Which data	a type is default type	e in Access?	p 1998 1041 84 1
(A) Memo	(B) number	(C) text	(D) Auto number
12. A CONECTION	of related fields is:	(C) table	(2 Times)
(A) file	(B) database	(C) table	(D) record
		ield to field in table win (C) Enter	
(A) Tab 14. Which of th	(B) Esc	retrieve data from data	(D) Spacebar
	formatted way	retrieve data irom data	abase and represent it t
	(B) query	(C) table	(D) report
		database in database te	erminology is called:
(A) Report	(B) Letter	(C)Table	(D) Query
	ation is called:	(c) rabic	(b) query
		(C)Tuple	(D) Relation
			Charles and parls of
17. It makes ver	y simple to create a d	atabase:	(6 times)
(a) sample database	(b) wizard (c) co	ommon standards (d)ea	
	t is the output of a da		(6 times)
(a) Form	(b) Query		(d) Report
		delete record from tab	
		(c) Design view	
	retrieval of data is re		(6 times)
(a) data capturing	(b) data manipulation	on (c) managing output	result (d) analysis
21. How find for	ur character name tha	t starts with H, the crit	eria is specified as:
		A TO THE PROPERTY A	(7 times)
(a) H*a	(b) H?4		(d) H##
	database, a table is a		
(a) tuple	(b) file	(c) schema	(d) relation
		from other tables is ca	lled:
(a) tuple	(b) table	(c) view	(d) report
		m student table, the cri	
(a) Like "M?"	(b) Like "M-"	(c) Like "M#"	(d) Like "M*"

a) Dat	used	in ca			be us	ed to		e a fie		t con				bers
	ta/Tir	ne		b) Me			, (c	:) Nun	nber		(d) Text		
6.			num l	ength	of te	xt typ		d in M			: ,,		-1	23
	chara			•		acters	,	155				•	chara	cters
7. a) Edi		ch of t				nues i				betw	een ta		1006	
8.		ch dat		b) File		ault ty	me?	c) Tool	5		(a) View		
a) me		cii da		b) nur		auit ty		e) text			(d	auto	num	ber
,	-		,	,			ANSV		200		, , ~	,		
	1	2	3	4	-5	6	7	8	9	10	11	12	13	14
	D	С	Α	Α	С	С	С	В	В	A	C	D	Α	В
	15	16	17	18	19	20	21	22	23	24	25	26	27	28
	D	C	В	D	D	В	С	D	C	D	C	D	D	C
														-
ns:	Text	data up to	ct Dat type i	DIN a Typ s used chara	e in M	O AL MS-Acc tore a	ess.	etic, r	RT S	YLL ers ar	ABU d spe	cial cl	020-	ers.
ins:	store Diffe Field unit	data data up to rentia : A fie	type in 255 ate beld is a ta. Fie	DIN s used chara etwee a com eld is t	e in Note to state of the state	O AL MS-Acc tore a The d d and on of	ess. Iphab lefaul Reco	etic, r t leng rd.	numb th of	ers ar Text d	ABU	cial cl 50 ch	naract aracte	ers. ers.
ins:	store Diffe Field unit	data data up to rentia : A fie of dat	type in 255 ate beld is a ta. Fie	DIN s used chara etwee a com eld is t	e in Note to state of the state	O AL MS-Acc tore a The d d and on of	ess. Iphab lefaul Reco	etic, r t leng rd.	numb th of	ers ar Text d	ABU nd spe lata is	cial cl 50 ch	naract aracte	ers. ers.
ins:	store Diffe Field unit	data data up to rentia : A fie of dat	type in 255 ate beld is a ta. Fie	DIN s used chara etwee a com eld is t	e in Note to state of the state	MS-Acctore a The c d and on of nallest	ess. Iphablefaul Reco	mal petic, r t leng rd. or mor of dat	numb th of	ers ar Text d	ABU nd spe lata is	cial cl 50 ch	naract aracte	ers. ers.
Ans:	Text store Diffe Field unit is als	data data e up to rentia : A fie of data o kno	t Dat type i 255 ate be eld is a ta. Fie wn as	DIN a Typ s used chara- etwee a com eld is to	e in Note to state the small	MS-Acctore a The cod and on of nallest	ess. Iphablefaul Reco	mal petic, r t leng rd. or mor of dat	numb th of	ers ar Text d	ABU nd spe lata is	cial cl 50 ch	naract aracte	ers. ers.
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ins:	Reco single ALI Nam Table i.	data e up to e up to e up to e of data e of data o kno ord: e unit e two des data	type is 255 ate bed is a sign visashee	a Typs sused characteristics a committed is to column and the colu	e in Not to state the small the smal	O AL IS-Acc tore a The c d and on of nallest Ka It is a	cess. Iphablefaul Reco	petic, ret lengurd. or more of date of	numb th of re rela ta tha rel as tup 6A	ers ar Text d ted cl t can	d speciata is the action of th	cial cl 50 ch ers. It cessed	naracter repred by t	tted es)
S. Ans:	Text store Diffe Field unit is als Recc singl ALI Nam Table	data e up to rential: A fie of data o kno rd: e unit e two view	type is 255 ate bed is a sa. Fie wn as Colliss a was	a Typs susectoral comments of the comments of the column o	e in Not do so coters. n Fiel binati the smmn.	O AL IS-Acc tore a The c d and on of nallest Ka It is a	cess. Iphablefaul Reco one of t unit Imra amrar Faisa	petic, ret lengurd. or more of date	numb th of re rela ta tha rel as tup 6A	ers ar Text d ted cl t can	d speciata is the action of th	cial cl 50 ch ers. It cessed	naracter repred by t	tted

Table is the most important object of a database. It is the combination of rows and columns. It is the central concept in relational database. All data in a

A field is a combination of one or more related characters. It represents one unit

of data. Field is the smallest unit of data that can be accessed by the user, It is

Name Imran Kamran Ali

relational database is stored in tables. Table is known as relation.

(2 Times)

(3 Times)

Define the term table in database.

also known as attribute i.e.

What is field?

Ans:

6.

Ans:

Ans:

Ans:

Ans:

11.

Ans:

What are Reports?
 Ans: Reports are the out

Reports are the output of a database application. Report is an important object of database management system. The report can be displayed on the screen, on the printer or on the disk. The reports may contain graphs and charts.

Write two characteristics of tables.

i. Each cell of the table contains only one value.

ii. Each column has a distinct name, which is the name of the attribute (field)

it represents.

How does a database differ from a table?

(3 Times)

Database	Table
that holds one or more tables.	A table is an object in the database that is used to store data about a particular entity.

10. What is Attribute? Give an example.

The characteristics of entity are known as attribute. It is the name of the field in a relation. An entity may have many attributes

Example:

Attributes of teacher are name, gender, telephone etc.

What is the use of Input Mask?

An input mask controls the value of record and sets it in specific format. It is similar to the FORMAT property but it displays the format on datasheet before the data is entered.

Example:

Phone number filed can be formatted with input mask to accept 10 digits as "(555) 123 456."

12. What is the use of field size property?

Ans: Field size is used to set the number of characters required in text and number field. The default field size for the text type is 50 characters. The field size can be limited to certain number of characters if value in field is small.

Define the term sorting.

Ans: The process of arranging data or records in sequence is known as sorting. The data can be stored in two ways i.e.

1. Ascending sort

2. Descending sort

What is filter? Explain its two types available in MS-Access.

Ans: Filters are used to extract records that match a set of criteria. Filters are used with opened tables. Different types of filter are:

Filter by form

It is useful if the table is large and it is difficult for the user to find the record that contains the value according to which the filter is to be applied.

Filter by selection.

Its feature is used to filter records that contains identical data values in a given field.

Write a query to display all record from employee table?

Select * from emp;

16. List any field properties?

i) Field size ii) Format

iii) Indexes

iv) Default value.

17. What is datasheet view in Ms-access?

Ans. The table view that is used to enter, delete or modify data in a table is called data sheet view. The table in this view is displayed in rows and columns.

How datasheet view is different from table design view?

18. Ans.

15.

Ans.

Ans.

Datasheet view	Design view
In datasheet view we enter, delete or modify data. It shows tables in the form of rows and columns.	Design view is used to design the structure of a table. It is used to specify name, data type, and description of fields.

- What is the use of SELECT query? 19. A SELECT query is used to extract data from table based on specified criteria Ans. may retrieve data from one or more tables. It displays result in datasheet who the records can be updated. It can be used to group records and calculate su counts, averages and other types of totals.
- List three methods to create table in MS Access. 20.
- i. Create table in design view. Ans.
 - ii. Create table by using wizard.
 - iii. Create table by entering data.
- Discuss the use of design view in MS Access. 21.
- It is used to specify name, data types and description of fields. Primary key is Ans. specified in this view. The structure of an existing table can also be changed design view.
- 22. Why is it important to specify the data type and size of the field?
- Each field must be assigned a particular data. The data type specifies the type Ans. data that can be stored in the field. Field size is used to set the number characters required in text or number field. It saves disk space and prevent en errors.
- 23. What is the use of wild cards?

(2 Times)

(3 Times)

- Wild cards are special symbols that are used in queries to search data. So Ans. important wild cards are:
 - ?: It takes the place of a single letter.
 - *: It represents the number of characters. ii.
 - "a*": All words beginning with a.
- 24. How is criteria specified in a query?
- Criteria are specified with the help of wild cards. Wild cards are special symbol Ans: that are used to extract particular records form the database.
- 25. Define the term degree of relation?
- The number of fields in a relation is called degree of relation. The degree of a tal Ans: is usually not changing once the table has been created. A table with the five field has a degree of 5.

LONG QUESTIONS OF CHAPTER-6 **ACCORDING TO ALP SMART SYLLABUS 2020-21**

- Explain 8 different data types available in MS. Access. 1.
- What is filter? Explain its two types available in MS. Access. 2. (4 Times)
- What is table? Write down six characteristics of table. 3.
- How new database is created? Explain the procedure of creating table using wizard.

OBJECTIVES (MCQ'S) OF CHAPTER-7 ACCORDING TO ALP SMART SYLLABUS 2020-21

(C)4

- A sub form can be created by using:
- (A) drag and drop method

(B) the form wizard

(C) sub form wizard (D) all of these

2. How many are the layout of report?

(A) 2 (B)3 (D) 5

A form within another form is called: 3.

(2 Times) (D) normal

(A) sub-form (B) main form (C) justified Forms are designed for: (2 Times)

(A) input data

(B) manipulate data

(C) accepting change (D) all of these

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. How m	any form	lavout		-					(ac)
1 6	(B)	4	3 61 6 1	Jiovia	(C) 6	1413-74	CCC33	(0)	•		-31
Which						!		2 (0)	8		
A) Checkbox	of the follo	owing is	usea	to ais	play y	es/no	values				
Which	(B)	Option	butto	n	(C) Bo	th a ai	nd b	(D)	Non	е	
Vynich A	Auto form	display	s one	record	d at a	time?					
Viabular	(B)	column	nar		(C) Da	tashee	t	(D)	Justif	ied	
	iew can b	e used t	o ente	er or m	odify	data ir	the u	nderly	ing ta	ble:	
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) tabular	(b)	column	ar			ashee	t	(d)	justifi	ed .	
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SHORT QUESTIONS OF CHAPTER-7 ACCORDING TO ALP SMART SYLLABUS 2020-21

1. Write the uses of Reports. (4 Times)

Ans: i. Reports present the required information in formatted style.

ii. Reports provide flexibility to present the same data in different ways.

iii. Reports can display information with graphics and charts etc.

2. Name two layouts of forms in MS Access.

Ans: i. Columnar form ii. Justified form

3. What do you know about columnar form?

Ans. Columnar form is used to display one record at a time. It displays text boxes and tables. The text boxes represent the fields of table or query. The label represents the names of field.

4. Why is report generator used to database systems?

Ans. Report generator is used to generate a report. Reports are the output of database application. The user can generate different types of reports by manipulating the database.

5. List two advantages of report.

Ans. i. Reports present the required information in formatted style.

Reports can display information with graphics and charts.

6. Write any two uses of Forms.

Ans. i. Form is used to manipulate database easily.

 It can be used to add data in the database, retrieve, view and search data from the database.

- Write the use of datasheet form.
- Ans. It is used to display many records at one time. It displays records in datasheet view of Access. Each row in this form displays one record of the table.
- 8. Why is a list box used in Forms?
- Ans. List box is used to display a list of items in forms. The user can select the desired item from the available items. The user can select one or multiple items.
- 10. Which control is used to execute commands in MS-Access forms?
- Ans: A command button is used to execute different commands by clicking on it. The caption of the command button indicates the type of command executed by the button.

OBJECTIVES (MCQ'S) OF CHAPTER-8 ACCORDING TO ALP SMART SYLLABUS 2020-21

1. An IDE consists	OI:		THE DEAL
(A) text editor	(B) compiler	(C) debugger	(D) all of these
2. The extension of	of C source program is		(3 Times)
\','	(B) .c	(C) .obj	(D) exe
3. Which of the fo	llowing represents th	e preprocessor directi	ve?
(A) void main (void)	(B) {}	(C) # include <stdio.h< td=""><td></td></stdio.h<>	
4. C statements e	nd with:	all our many or	_ प्रतास क्षेत्र क्षेत्
(A) period	(B) comma	(C) semi-colon	(D)question mark
5exe file is prod	uced by the	1,787	(5 Times)
(A) linker	(B)loader	(C) compiler	(D) interpreter
6. Void occupy ho	w many bytes in me	mory	(2)
(A) zero		(C) two	(D) four
7. A programs' sy	ntax error is detected	d by	No. 1 and
	(B)compiler	(C) loader	(D) debugger
The lowest leve	el of programming lan	guage is:	V ALLUA !
(A) Assembly language	(B) Java	(C)Pascal	(D) C++
9. k	ey is used to save a fi	le in Turbo C++.	Which the uses of
	(B) F2	(C) F5	(D) F7
10. Who develope			state of thought
(A) Von-Neumann	(B) Al-Khuwarizmi	(C) Charles Babbage	(D)Dennis Ritchie
11. Turbo C++ can	compile:	And the second second	SAME CHEZ STORY
(A) C programs only		(B) C and C++ progra	ims
(C) Turbo C programs		(D)Turbo C++ program	
	ctives are command	for: mainstall so	suffer and carded
(A) Microprocessor	(B) Language Process	or (C) C preprocesso	r (D)Loader
13. Header files in	C contain:	SULTED OF LIBER SOCIETY	
(A) Compiler comman		(B)Library functions	mischina8 housy,
(C) Header information	on of C programs	(D) Operators for file	S Del Dellechicat.
14. Which of the fe	ollowing syntax is use	ed to include header f	ile?
(A) #include <name of<="" td=""><td>header file></td><td>(B) # include name o</td><td>f he header file</td></name>	header file>	(B) # include name o	f he header file
(C) Both a or b	TATE OF MINORAGES	(D) None of these	organisma.
15. Stdio.h is part	of:		The second of the second
(A) comment section	(B)C standard library	(C) Compiler	(D) main function
16. The name of h	eader file is written b	etween:	Cad as a B
(A)[]	(B)'()	(C)<>	(D) <<>>
	The state of the s		

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Creating	g bugs in	program		(D)	Identif	ving and	removin	g error	
				(D) Remo	ying and ving Erro	rs	. 1	
DIVIS	error	- 13 GII	example	of:	/ Keillo	ville Elito		(2 Tim	es)
					Logic e	rror	(D) N	lone	
Syntax e		followin (B)Logic	g errors	are NOT	detecte	d by cor	npiler?		
Syntax		(o)rogi	cal error	(C) both a	and b	(D) N	one	
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A	. A	В	lin.						

SHORT QUESTIONS OF CHAPTER-8 ACCORDING TO ALP SMART SYLLABUS 2020-21

Who is Programmer? 1.

(3 Times)

Ans:

A person who develops a computer program is called programmer programmer develops programs to instruct the computer how to process and convert it into information. Programmer uses programming language or to to write programs. Differentiate between Syntax Error and Logical Error.

2.

Ans:

Syntax Error	Logical Error			
occurs when an invalid statement is written in program. Syntax errors are detected by compiler. A program containing syntax errors cannot be compiled successfully. Typing 'forr instead of 'for' is an	A type of error that occurs due to pologic of the programmer is known logical error. A statement with logic error is executed and may produ unexpected and wrong results in the program. Typing, a wrong formula calculate the results is an example logic error.			

3.

Case sensitivity means upper case and lower case alphabets/letter can be used Ans: different propose. C is a case sensitive language it can differentiate uppercase a lowercase words. All keywords are written in lowercase.

State the purpose of defining preprocessor directive.

(5 Times)

Ans: Preprocessor directives are the first line of the C program. Define directives is used to declare constant that remains same during execution of the program 5. What is an assembler?

An assembler is translating program that translates the instruction of an assemb Ans:

language into machine language. 6. Define object code. (7 Times)

Ans:

The computer program in machine like language or in a low-level language called object program or object code. An object program can be easi understandable by the computer. It runs more efficiently on the computer system.

7. What is syntax error? Give an example. Ans:

Syntax error is a type of error that occurs when an invalid statement is writte in program. Syntax errors are detected by compiler. A program containing synta errors cannot be compiled successfully. Typing 'forr' instead of 'for' is an example of syntax error.

Define linking.

Linking is the process in which the object file produced by the compiler is linked Ans: to many other library files. The library files must be linked with the object file before execution of the program.

9. What is header file?

(5 Times)

The header files contain the declarations or information of standard library Ans: functions. These functions are called in the main body of the program to perform different tasks. The extension of a header file is ".h".

10. Define the terms Bug and Debug.

Ans: An error in a computer program is known as bug. The programmer can make different errors while writing programs. The errors must be removed from the program before it can be compiled and executed. The process of finding and removing bugs from a program is called debugging.

1.

What do you mean by Delimiters?

(5 Times)

ns: The statements of the program are written in curly braces. The curly brace { is called opening brace and } is called closing brace. The braces are also known as delimiters. These statements inside these braces are collectively known as the body of a program.

. Give an example of Preprocessor Directive.

ns: The preprocessor directives are commands that give instructions to C preprocessor. Preprocessor directives start with hash # and the keyword include or define. These directives are written at the start of program.

. Why is C known as strongly typed language?

ns: C is strongly typed language. It means that a variable must always be declared before it can be used in a program. The compiler gives an error if an undeclared variable is used in a program.

Define source code.

ns: A program written in a high level language is called source code. It is also called source program. It cannot be executed by the computer directly. Language processor is required to convert it into object code.

Define program.

(2 Times)

A well-defined set of instruction given to computer is called computer program. It is written in a programming language. Computer always follows the instructions written in the program. A person who develops the program is known as programmer.

Define High Level Language.

(3 Times)

A type of language that is close to human language and far away from computer is called high level language. The instructions in these languages are similar to English language such as input and print etc. Computer cannot execute high level language directly. Language processor is required to convert them to object code.

How a source code is different than an object code?

(3 Times)

Object code	Source code
language or in a low-level language is called object program or object code.	It is also called source program. It cannot be executed by the computer directly.

List four advantages of C-Language.

is: 1. Convenient language

2. Well-structured language

3. Machine independence

4. Small language

IS:

What do you mean by bug?

An error In a computer program or software is known as a bug. A programmer can make different errors while typing or writing a program. A program cannot compile if it contains any bug.

List any four commonly used High Level Languages.

(2 Times)

S: C++, Java, Pascal, Basic, Cobol.

Why the Source Code cannot be executed directly?

Computer can only understand binary or machine language. But high level language cannot understand by the computer. So to run a source code on computer we need a language processor to convert it into machine language. Then it becomes understandable by computer.

Differentiate between Preprocessor directives and header file.

Name two main categories of programming languages. 23.

30

Ans: 1. High level language 2. low level language

Define Runtime Error. 24.

Runtime errors occur during the time of the execution of the program. It occ Ans: when a statement directs the computer to execute an illegal operation such a number dividing by zero.

How program logic implemented? 25.

Ans. In unstructured programming language, the entire logic of the program implemented in a single module or function. The program written in this language is error prone, difficult to understand, modify and debug.

26. Define assembly language?

It is a low level language. It is one step higher than machine language. In assem Ans. language instructions are replaced with English like words know as mnemonics.

27. Write down preprocess or Math.h

Ans. # include <math.h>

Differentiate between machine and assembly language? 28.

Ans. Machine Language

i) The type of language in which instructions are written in binary form is called machine language.

ii) It is directly understood by computer.

iii) It is very fast.

iv) It is machine dependent.

Assembly Language

i) It is one step higher than machine language.

ii) Translator is required for this language iii) It is slower than machine.

iv) It is not machine dependent.

29. What is meant by comments? Also give an example?

Comments are the statements that are not executed by compiler. They are of two type Ans.

Multi line comments

..../ Single line.

ii) \\.....

\\ I love C++.

30. Why does machine language programs execute faster?

A program written in machine language can be executed very fast by compu Ans: because computer understands it directly and it does not need any translator understand this language.

What is the use of main () function in C. 31.

(2 Times)

The main () function is the place where execution of a C program starts. When program is executed, the control enters main () function and starts executing statements.

32. Differentiate between source code and object code.

Ans:

directly.

Ans:

Source code	Object code
A program written is a high level language is called source code. Computer can not understand this code	object code

33. What is meant by language processor?

Ans: A language processor or translator is a type of system software that converts programs written in high level language into machine language. Every computer language has its own translator.

34. Why the logical error is the most difficult error to find?

Ans: The logical error is the most difficult error because it cannot be detected by the compiler. It does not crash the programs. The user needs to review the whole program to find logical error.

35. Briefly explain normalization.

Ans: The process of producing a simpler and more reliable database structure is called normalization. It is used to create a suitable set of relations for storing data.

36. Enlist logical operators.

Ans: i. AND operator (& &)

ii. OR operator (I I)
iv. NOT operator (I)

37. Differentiate between compiler and interpreter. OR What is compiler? (2 times)

Ans:

Compiler	Interpreter				
the instructions of a high level language into machine language as a whole. The	An interpreter is a program that converts one statement of a program into machine language at one time. It executes a statement before translating the next statement of the source program.				

Describe the concept of linker.

Ans: A program that combines the object program with additional library files is known as linker. It is a part of c++ compiler. The linker generates error message if the library file does not exist. A new file is created with .exe extension if the process of linking is successful.

39. What are logical errors?

Ans: A type of error that occurs due to poor logic of the programmer is known as logical error. A statement with logical errors may produce wrong results. For example typing a wrong formula.

40. Differentiate between linker and loader?

Ans:

Linker	Loader			
program with additional library files is known as linker. It is used to perform the process of linking. In this process, the library files are linked with object program. These files are used to accomplish different tasks such as	A program must be loaded in the memory in order to execute it.			
input/output etc.	Bline Sale Com (2) SUM FILE			

41. Why do you include "stdio.h" header files in C-program?

Ans: This header file includes in C-program because this header file contains the definitions of built-in input and output functions such as printf () and scanf () etc.

42. What is the purpose include directive?

Ans: The "include" preprocessor directives enable a program to access a library. Each library contains different header files. The include preprocessor directive is used to include header files in the program.

43. How is header file included in C-program?

Ans: The preprocessor directive include is used to add a header file in the program. The name of the file is written in angle brackets <> after # include directive.

LONG QUESTIONS OF CHAPTER-8 ACCORDING TO ALP SMART SYLLABUS 2020-21

1.	Briefly describe the basic structure of C program with example.

How would you create, edit, compite and execute a C program? Discuss briefly.

What is an Error? Explain different types of Errors in C-Language. (2 Times)

What necessary steps are taken to prepare a C program for execution? Explain in detail. (2 Times)

5. What is language processor? Describe different types of language processor.

OBJECTIVES (MCQ'S) OF CHAPTER-9 ACCORDING TO ALP SMART SYLLABUS 2020-21

1 Militar In	PROPERTY OF THE	PATE WE BY THE	35 2020 21
1. Which is	a numeric data types?	7-11	
2. Variable	t (B) integer	(C)both a and b	(D)none of these
/A) number	name cannot begin with	aini:	
(A) number	(B) underscore	(C)upper-case letter	(D)lower-case letter
J. VVIIAL VVII	i be the output of the fo	mowing print to 2f.5 5	555);?
(A) 5.555	(B) 5.55	(C) 5.56	(D)5.00
4. Which of	the following is not a va	lid variable name?	The state of the s
(A) a 12.3	(B) my name	(C)int	(D)both b and c
5. A relation	nal expression is false, it	has the value	
(A) zero	(B) one	(C) less than zero	(D) none of these
6. Which o	it the following is a s	and character const	ant?
(A) a	(B) D	(C) "6"	(D) '4'
Which of	the following is not cha	racter constant?	
(A) 4	(B)'a'	(C) '1'	(D)'5'
8. Variables	are created in:		Charles Contract to
(A) ROM	(B) cache	(C) RAM	(D)Hard disk
9 Pelations	onerators are used to		(S)riaid disk
(A) establish a re	elationship among variab o values	les (B) perform arithme	etic operation
(c) compare con		(D) create relations	hin
	ool "=" represents.		The second secon
(A) comparison	operator	(B) assignment opera	(2 Times)
(C) equal to ope	rator	(D) logical operator	tor the second
11 Which of	the following data type	Offers the highest	in a dia
(A) long double	(B) unsigned long if following are logical op	nt (C) float	(2 Times)
12. All of the	following are logical or	perators except:	(D) long int
(A) NOT	(B) AND	(C) OR	And an opposit
13. Which te	rm describes the kind of	values that a variable	(U) =
(A) data type	(B) variable name and constant name can	(C) variable type	an store
14. Variable	and constant name can	not have a :	(D) variable size
(A) Number	(B) Underscore	(C) Period	(4 Times)
15. Total nun	nber of key words in C is		(D) Letter
(A) 30	(B) 32	(C) 34	
16. Void occu	ipy how many bytes in r		(D) 36
	(B) one	(C) two	(2 Times)
17. The expre	ession p-=q is equivalen		(D) four
	(B) p=q-1	(C) p=p-q	AR OR
18. The numb	per of bytes used by long	double date	(D) q=p-q
(A) 4	(B) 8	(C) 10	The second
(~) 4	(B) 8	(0) 10	(D) 12

					100	C	-langu	age				2	
19	. H	low ma	any by	tes the	float	data t	pes ta	ke in r	memo	ry		(3 ti	mes)
(a)	2			(b) 3			(c)	4			(d) 8		
20	. A	type	of oper	ator t	hat wo	rks wi	th one	opera	nd is	alled:			mes)
(a)	Binary	operat	or	(b) U	nary or	perator	(c) Te	rnary o	perato	r	(d) Re		
21	. +	+ Inis	means	to inc	rease a	a value	by on	e:	-				mes)
(a)	N	1odulu	S	(b) De	ecreme	nt	(c)				(d) Ir	ncrem	ent
					7.64		LANGU						
22	. A	+=B is	eguiva	lent to	٠.	<u>C-</u>	LANGO	AGL				(3 ti	mes)
a)		+=a		(b) a=			(0)	A=A+B			(d) b=l	•	
3.	W	/hich is	a vali	d char	actor		(C)	A=A+D			(0, 5		mes)
a)	Α			(b) "H	acter t	onsta		101			(d) =	,	
4.		staten	ent e	nde wi	eh.		(c)	0			(0)	. 19 ti	mes)
	Period	1		(b) Co			1-11				(d) Sei		
5.		n array	subse	rint ch	iiiiid		(c)	Colon			(u) Jei	(9 tir	
	Float	,	Jubsc	(b) De	iouia b	e:					(4) Po	•	iles
6.	M	hich is	2 201	(b) Do	puble		(c)	int			(d) Re		lan
	Floatin	/hich is	a nun	ieric d	ata ty	oe:					/d\	(9 tir	
•				(b) int				louble			(d) long	g doub	
7.	_ π	ne num	iber of	bytes	used I	by int	data tv	pe in (c is:				
	2			(b) 4			(c) 6				d) 8		
8.	F	ınction	is used	for I/	O are	tored	in:						
	staio.r	1		(b) co	nio.h		(c)	Math.h	1 6	(d) inut	.h	1
9.	W	hich O	perati	on is p	erforn	ned by	Relati	onal O	perate	ors:			
3)	COILLE	Jai 15011	1	(D) ad	dition		(c)	subtra	ction	. (d) div	vision	
0.	W	hich is	nume	ric dat	a type	with o	lecima	Ingint	•		-,		
1)	float			(b) int	- cype	ovicii ((c) (1	d) lon	0	1 7
í.	W	hich o	f the fo	llowin	og ic a	valid c	haract	or con	ctant.	,	۱۰.۱۰	ь .	and the same
3)	а			(b) '@	ig 13 a	vallu C	naracti	er com	stant.		(d) -		of the same
ź.	17.0	C varia	able on	(0) @		ut teach	(c) "	С			(d) =		
	numb	C Valle	able ca	Thinot (contair	1:				,			
3.				(b) und	erscor	е .	(c) le	etter		(d) per	100	
-	Cons	memo	ry ioca	tion w	ith soi	me dat	a that	can be	chan	gea is	called		1
•		-		(b) Va	riable		(c) I	Named	const	ant (a) Aa	aress	4
4.		t is a_		/L\ //-	in C?								
		word		(b) Ke	yword		. (c) C	ut word	1	(d) First	word	
5.	2E ob	C, the	maxim	ium le	ngth o	t varia	ble na	me is:		7 .			iezlu!
		aracte		(D) 25	5 chara	cters	(c) 3	1 chai	racters	(d) 55	cnara	cters
5.	, W	hich of	tne to	ilowin	ig is no	t logic	al ope	rator:		4.			
•	&& <u> </u>			(b)			(c)			(6	=> (b		
7.	Th	e left s	side of	an ass	ignme	nt stat	ement	holds	9-19-1				
)	Va	riable	P4 (b) Con	stant		(c) E	xpress	ion	(d) Digit		
3.	W	hich da	ata typ	e is th	e most	appro	priate	for st	oring a	a name	e?		145
)	FIC	oat	. (b) Int			(c) C	har		(d) Lo			
).	W	hich of			g oper	ators I	nas low	est pr	ecede	nce?			
)	=	*	1	b) +	J - F 3.		(c) *	P			d)!		
		hich of				-t	20 66	lawisco		done	3		100
		hich of			g oper	ator n			prece			1	
)	1		(1	b) +	· · · · · · · · · · · · · · · · · · ·		(c) =		. 11. 6	(d) = =	400	
•	Th	e numl	ber of	digits a	after a	decim	al poir	t is ca	lled:				
		nifican		b) Ran			(c) Pr	ecisio	n	(d) 5	Scope		-
		C-lange				e (s) ca	nnot h	egin v	vith a	(an).	2.		
		mber	//	h) Low	er-case	letter	(c) 11	nner	ace let	tor /d	\ IInd	recor	•
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					AN	ISWER	15					
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С	Α	В	D	Α	D	A	C	С	В	A	D	A
14	15	16	17	18	19	20	21	22	23	24	25	26
С	В	D	С	С	C	В	D	С	С	D	С	В
27	28	29	30	31	32	33	34	35	36	37	38	39
Α	Α	Α	Α	В	D	В	В	С	D	A	C	A
40	41	42						,		<u></u>		
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SHORT QUESTIONS OF CHAPTER-9 ACCORDING TO ALP SMART SYLLABUS 2020-21

Write any two rules for Naming variable 1.

(2 Times)

Ans:

I. Variable may include letters, numbers and underscore (_). ii. The firs character of variable must be a letter or underscore. The use of underscore is not recommended. The variables 9 minute. #home and 2 kg are invalid. Differentiate between = 'a' and =a.

2.

='a' statement character a is assigned to a variable. Ans:

An in =a ASCII value will be assigned to a variable or a variable value can also be assigned to other variable, i.e.

> Int a=5: Int b: b=a;

This will assign the value of a to b which is 5.

What is meant by Associativity of Operators? 3.

The order in which operators of same precedence are evaluated is known as Ans: operator associativity. If an expression contains some operators that have same precedence level, the expression is evaluated either from left-to-right or right -to

Differentiate between declaring and defining a variable. 4.

Ans:

Declaring	Variable
the name of the variable to be used in the program and the type of information stored in it. It does not	On the other hand, when a variable is defined, a memory location is also reserved for the variable. The size of memory location reserved for variable depends upon the data type of variable.

5. float Y=3.4+SQRT (25.0)

(2 Times) 8.4

Ans:

6. Give some examples of valid variable names.

Ans: In C language there exist some rules to declare a variable. Valid variables are the names which are according to these rules. The words marks, average grade and salary are valid variable names. 7.

Describe variable declaration.

Ans: Specifying the variable names and their data types in the program is called declaration of variables. It means that all variables must be declared before they are used in the program. The compiler gives an error if an undeclared variable is used in a program, i.e. int a; 'int' is a data type and 'a' is the name of a variable. 8.

Define character constant.

(2 Times) Ans: A single character or digit or special character written between single quotes is called character constant. It means that the maximum length of character constant is 1 character. For example 'A', 'I', 'X', 'Y', '=' and '9' are character constant.

9. Trace the error.

> Int a= 6 ++a:

Printf("%f",a) Ans: 3 errors

1. int a=6 should terminate with a semicolon ';'. Printf("%f',a) should also terminate with a semicolon ':'.

Y.d should be used in place of F.

Distinguish between a constant and a variable.

35

10. Ans:

3.

Constant	Variable			
A constant is a quantity that can not be changed during programme execution.	A variable is a named memory location or memory cell. The value of variable may be charged during the execution of programme. However, the name of variable cannot be changed.			

What is compound assignment operator?

An assignment statement that assigns a vale to many variables in known as ins: compound assignment statement. The assignment operator is = is used in these statement.

Define increment decrement operators.

Ins: Increment operators: The prefix increment operator is used to decrement the value of a variable by 1. It is unary operator and works with single variable. In prefix form, the increment operator is written before the variable like ++v. Decrement operator: The operator that is used to subtract 1 from the value of a variable is called decrement operator. It is represented by - - (double minus sign). It is a unary operator. It is applied to a single variable only, i.e. y--.

What is the use of AND operator?

The symbol used for AND operator is (&&). It used to evaluate two conditions. It produces true if both conditions are true. It produces false result if any one condition is false.

Trace the Output int number =6: int x=0; x=--number: Print f ("%d",x);

ns:

ins:

What happens when arithmetic under flow occurs?

5. The arithmetic underflow occurs when arithmetic calculation is performed on very ns: small two variables. The result may be too small to be represented in a particular variable. Thus result may be represented as zero in this situation.

6. Define variable. (2 Times)

ns: A variable is a named memory location or memory cell. It is used to store program input data and its computational results during execution. The value of a variable may be changed during execution.

Find the errors in the following code:

#include<std 10.h> void main (void) Intx,y,z Z=x+v+z

IS: 3 errors stdio.h spell is not correct.

> Int x,y,z should terminated with ';'. I.e. Int x,y,z; Z=x+y+z should terminated with ';'. Z=x+y+z; Identify the errors in the following lines.

Integer A=2+3:

Float B=5;

Int C=A+B;

1 error

Integer is not any datatype in C. it should be like this Int A=2+3;

(2 times)

W

b

W

It

h

n

١

43.

Ans.

26. Define keywords.

keyword is a word in c which has predefined meaning and purpose in c language Ans: The meaning and the purpose of the keyword is defined by the developer of 41. language that cannot be redefined or changed by the user. Ans. 27. What do you mean by assignment operator? (2 Times) 42.

The assignment operator = is used in assignment statement to assign a value Ans. Ans: computational result to a variable. The name of the variable is written on the

side of the assignment operator and value is written on the right side. 28. List two types of Identifiers in C.

Ans: 1. Standard identifiers

2.User defined identifiers 29. How are Characters Stored?

The characters are stored in ASCII code form. ASCII stands for AMERIC Ans: STANDERD CODE FOR INFORMATION INTERCHANGE. The ASCII code values used when they are added, subtracted and compared.

30. Why is it important to assign a data type?

Ans. Data type tells the compiler, how much space a variable will take in memory and what type of contents it will store. So it necessary to assign data type so that compiler should know about space and content can catch error easily.

31. What is statement terminator?

':' is a statement terminator. It tells the compiler that specified statement has Ans. been ended.

32. Write the use of turbo c++?

Ans. It is used to create, edit and save programs. It is also used to debug a program. It has a powerful debugger.

Name data type use to store use to store real data?

Ans. Float, double are used to store real data.

34. Write a shortcut key to run.

Ans. CTRL+F9

33.

35.

Write legal character for identifiers?

Only Alphabets, numbers and underscore can be used as identifier. Ans. First letter should be alphabet or underscore.

36. Why does integer overflow occurs?

Ans. It occurs when we give addition or multiply large values. That increase in result of the value. So value will increase. Then the maximum range of data type. In this way integer overflowed.

37. Find the Error. void main ()

> Int c=7 Printf("%d".C:

Ans: Statement termination semi colon (;) is missing after int c=7

Closing parenthesis is missing after print ("%d",c;

38. Write the use of operators. Operators are used to perform certain operations on data. For example Ans.

arithmetic operators are used to form arithmetic operations.

Logical operators are used to specify multiple conditions.

39. What is the use of assignment, statement?

A statement that assigns a value to a variable is known as assignment statement. Ans: The assignment operator (=) is used in assignment statement to assign a value to a variable. 40

Differentiate between unary and binary operators.

٠	L	,	•		
۸					
٠	u	1	3	٠.	

Unary operator	Binary operator				
A type of operator that works with one operand is called unary operator, some unary operators are -,++, e.g -a; x++;y;	A type of operator that works with two operands is called binary operator. Some binary operators are +,-,*,/,% e.g a+b; x.y				
List four keywords in C language.	(2 Times)				

41. List four keywords in C language. Ans. · (ii) for

(iii) while (iv) int

42. Write about data type in C.

(i)

Ans. The data type spacifies the type of data that can be stored in a variable. It also defines a set of operations on the data. Each data type has a range of values and requires different amount of memory.

43. How does cancellation error occur?

Ans. The cancellation error occurs when very large and very small floating numbers are manipulated. The manipulation may show unexpected result. The larger number may cancel out the smaller number when both numbers are added.

VOID should be written in small letters i.e void.

There should be semicolon after printf statement.

Write a statement to declare an integer variable i initialized to 10?

Ans: int i=10: 54. **Determine the output**

Int number = 6: Printf ("%d\n", number++);

Ans:

53.

55.

Ans:

2 and 1

Find the errors:

int n = 4.2

```
i) The inf in the line must be replaced with float according to value
Ans:
       ii) The line must end with semicolon
       Rewrite the expression n++; without using the operator ++?
56.
       n = n+1:
Ans:
       What will be the output of the following?
57.
       int number = 6;
       int x = 0;
       x = number--;
       printf ("%d\n", x);
Ans:
       Find errors in the following code segment:
58.
       int a b;
       a = 10
       b = 5:
       printf ("a+b=%c", a+b);
       i) The variables a and b in first line must be separated with comma
Ans:
       ii) The second line must end with semicolon
       iii) The format specifier %c in the last line must be replaced with %d
59.
       How string value is displayed in C-language?
Ans:
       A collection of characters written in double quotations mark is called string and string
       constant. It may consist of any alphabetic characters, digits and special symbols. String
       values displayed on the screen by using printf () function or puts function.
60.
       Find errors in the following code segment:
       int a b:
       a == 10:
       i) The variables a and b in first line must be separated with comma
Ans:
       ii) The == operator in second line must be replaced with =
61.
       Write a C-statement to initialize three integer variables named A, B and C and
       assign them the values 10, 20 and 30 respectively.
Ans:
       int A = 10:
       int B = 20:
       int C = 30:
62.
       What is compound condition? Give an example
Ans:
       A type of comparison in which more than one condition are evaluated is called
       compound condition. It executes a statement or set of statements by testing many
       conditions. An example of compound condition is (a > 50 && a < 100).
63.
       How an arithmetic overflow occurs?
Ans:
       The arithmetic overflow occurs due to the manipulation of two very large
       numbers. The result may be too large to be represented when two very large
       numbers are manipulated. For example, an overflow will occur if an integer
       variable is assigned value more than 32767.
64.
       Find errors:
       include <stdio.h>
       void main (void)
       int x = 3
       printf ("%d", x);
Ans:
       i) The word "include" in first line must start with #
       ii) The fourth line must end with semicolon
65.
       Predict the output of following code segment:
       int x = 7:
       int y = 3;
       printf ("%d and %d", x/y, x%y);
```

Initialize three variables T1, T2 and T3 in a single line by assigning values 48, 4

66.

Ans:

and 39 respectively: int T1= 48, T2= 45, T3= 39;

```
What will be the output of following code segment?
 67.
         int m = 7;
         int v = 3;
         printf ("%d", m%y);
 Ans:
        Find errors in the following code segment:
 68.
        Void main ()
        { int x=5
        int y;
        v= x+3;
        printf ("%d, y);}
        i) The second line must end with semicolon
 Ans:
        ii) The format specifier "%d" in fifth line must enclosed in double quotation marks
69.
        Write a statement to declare an integer variable i initialized to -1?
Ans:
        int i=-1:
70.
        Determine the output of the following code:
        int b = 9:
        b = b/2;
        printf ("%d", b);
Ans:
71.
       What is arithmetic expression?
Ans:
       A type of expression that consist of constants, variables and arithmetic operators
       is called arithmetic expression. These expressions are used to perform arithmetic
       expressions.
72.
       Find errors in the following code:
       Void main ()
       Int c=7
       Printf ("%f", C;
       i) The word "Void" in the first line must be written in lowercase
Ans:
       ii) The third line must end with semicolon
       iii) The variable C in fourth line must be written in lowercase
       iv) The fourth line is missing closing bracket) before semicolon
       Declare two integer variables x and y in one declaration statement?
73.
Ans: .
74.
       Determine the output of the following code:
       int x, y = 6;
       x = y++;
       printf ("%d", x);
Ans:
75.
       Find errors in the following code:
       int a
       Printf ("%d" a);
Ans:
       i) The first line must end with semicolon
       ii) Variable "a" must be initialized to some integer value in order to display some
       result
       iii) In second line a comma must be place d between "%d" and "a"
```

OBJECTIVES (MCQ'S) OF CHAPTER-10 ACCORDING TO ALP SMART SYLLABUS 2020-21

		not a valid escape co	1-1	(D)/f
A) /t		(B) /r	(C) /y	(D)/f (6 Times)
	The escape so	equence for back slash (B) /b		(D)/t
1)/			(C) \\	
	Which escape	e sequence can be used (B) b		(D) m
1) /a	Format speci	fier symbol is started v	(C) \n	(3 Times)
_	Format speci	(B) %		(D)#
1)@	which of the	following is not ternar	(C) \$	(1)#
	Which of the	(B) +		(D)2
1)++	The function	getch () is defined in	(C)	(D)? (2 Times)
		(B)string.h		(D)conio.h
std	The format s	pecifier % μ is used for	(C) math.h	(2 Times)
		pecifier 10 µ is used to		(Z Times)
) int	eger		(B) unsigned short	
;) uns	igned float	getche () is found in	(D)unsigned decimal in	iteger
			(C) somia h	(D) math h
a) stdi	The value of	(B) string.h C expression 5/9*2 is:	(C) conio. h	(ט) ווומנוו. וו
		(B) 1.11		(D) 2
0.2	Mhich of the	e following format spe	(C) 0	
0.		(B) % d		(D) % s
1) % 1	Which of the	given is not a valid es	(C) % c	(D) 70 S
1.	Willell of the	(B) /r		(D) /f
1) /t	Which of the	following function is u	(C) /y	(D) /f
2.	Willell of the	(B) Getch	(C)Getche	
A) Pri	An amparan	d before the name of a		(D) Scanf (2 Times)
3.	An ampersan			(D) Data type
	ual value		(C)Address	(D) Data type
4.		pecifer used for floating (B) % i		(D) 0/ f
4) %		equence used to move	(C) %d	(D) % f
5.		(B) /t		
A) /b			(C) /n	(D) /r
		C-la	nguage	
6.	The escape s	equence for carriage r	eturn is:	and the state of the
1)	\a	(b) \c	(c) \r	(d) \f
7.		ich used to get input fr	om the user:	And the same of the same
) prir		(b) clrscr()	(c) scanf()	(d) puts()
8.	How many v	ariables can be used in		many but an unit
) One		(b) Two	(c) Ten	(d) Many
9.	The function	that is used to display		
) Sca			(c) display	(d) printf
		tement, the Case Bloc		. de La constant de l
0.		(b) stop		(d) abort
1)	end		(c) break	(d) abort
1.	Format speci	fier is started with syn		(4) *
)?	The farmet -	(b) &	(c) %	(d) *
2.	ine format s	pecifier % f is used for		(d) fleet
) int		(b) long	(c) double	(d) float
3.	If $x = 2$ and	y = 3, what will be the		
1) 6	•	(b) 5	(c) 12	(d) 10
,	sathish of the	following format spec	ifiers is used for chara	cter data type?
4.	which of the	(b) %s	(c) %c	

12th	Class		42		A Plus C	omputer	<u> </u>	_		
25. a)	The fu Stdio.h	nctions	used fo (b) Con	r input a	and out	put is st	ored in: .h	(d) Inout.	h
	An esc	ape seq				aracter:		14)//	-6311
)								(0	ce?	
	Which	charact	er signi	fies the	beginni	ng of an	escape	sequen	11	
	{·	,	(b) //		(c) *		مرابع	is:	
	The ge % m.nf	neral fo	rm of fo (b) m.r	ormat sp	ecified (for floa c) m%.n	ting poi	(d) m.n%	,f
					ANS	NERS	10			10
	1	2	3	4	5	6	7	8	9	D
	C	С	С	В	D	D	D	C	В	
	11	12	13	14	15	16	17	18	19	20
	C	A	C	D	A	C	C	D.	D	C
	21	22	23	24	25	26	27	28		4
	C	D	A	C	A	В	D	Α	:	1
	A	S	HOR	T QUI	STIO	NS O	F CHA	APTER ABU	R-10 S 202	0-21
ıs:	The am	persan	d (&) r	efers to	the m	emory I	nction? ocation me is als	of the	variable I addres	in wh
	Trace (the out	out:	47/2012		1.35° -11		t de la companya de l	s orte de	
		=3.2413 "f=%3.3		the bio	in in it	40. Sen	ingela j			
s:	3.241	9			a sinur-1	WK 10 0	Te ski	and to	of the fill	An edi

Find Error: Int I = 5; Printf("%d",i); There is one error. i.e. C language is case sensitive. In variable declaration, t Ans: is capital I. while small I is displaying in printf statement. Both are different in Define getch() function. (5 Times) The getch() function is used to input single character from the user. It is Ans:

abbreviation of 'get character'. When this function is executed, its wait for key to be pressed. The character entered by the user is not displayed on

Trace the errors in the following code: 5. void main ();

Printf ('pak');

Ans: 2 errors

1. There should no; after void main().

2. String pak should be in " ".

What will be the output of the following: 6. printf("55/t");

(2 Times)

printf("555");

Ans: 55 555

printf("2.2f",i);

1.18

Ans:

```
How are comments added on multiple liens?
7.
       Comments on multiple lines are added by using "/*" and "*/" symbols. You can
Ans:
       write comments between these two lines. i.e.
        /*----- comments
       In multiple lines
       */
8.
        Write C statement to print the value of unsigned long x.
                                                                        (2 Times)
       Unsigned long int x;
Ans:
       Printf("enter the value of x"):
       Scanf("%d",&x);
       Printf("x=%d",x);
9.
       State Relational Expression.
Ans:
       Relational expression is a statement that uses relational operators to compare
       two values. Examples of relational expression are A>B, A<B, A<=B, A>=B, A==B
       and A! =B.
10.
       Describe clrscr ( ) function.
Ans:
       This is used for clearing the output screen i.e console. It is abbreviation of "clear
       screen". When this function is executed, the screen is cleared and the cursor
       blinks on the top-left corner. This function is available in the header file conio.h.
11.
       Write the output of the following code.
       Int x=9:
       X=x%4;
       Printf("/n%d is result ",x);
Ans:
        1 is result.
12.
       Trace the output of the following code:
       Intx,y,x;
       x=3;
       v=2:
       z=4:
       printf("%d%d%d",x+y,y+5,x+z);
       getche ():
Ans:
       577
13.
      Trace the error of the following code:
       void main ( )
       Int a =10
       Printf ("%d",a)
Ans:
       2 errors
1.
       int a =10 should terminates with semicolon ';'.
2.
       Printf ("%d",a) should also terminates with semicolon ':'.
3:
        A and a are different in C so use a in place of H.
14.
       Define standard output.
Ans:
       The process of getting something from computer is known as output. The output
       is mostly displayed on monitor. The term standard output refers to the output
       displayed on monitor. The result of a program is the output of that program.
15.
       List some important function for output.
Ans:
       i. printf( )
                            ii. Puts ( )
16.
       Which symbol is used to start format specifier?
Ans:
       Format specifier are started with the symbol %.
17.
       Trace output of the following
      float i= 1.17894;
```

```
18.
        Trace the output
        void main ( )
        Printf("55/t");
        Printf ("666");
        Printf ("/n 777");
 Ans:
        55 666
        777
 19.
        Trace the errors in the following code:
        void main ();
        Inta,b;
        A = -10;
        b = 40
        b=a
        printf("Result = %f",b):
        getch ( );
Ans:
        4 errors.
1.
        b=40 should be like b=40;
2.
        b=a should be like b=a;
3.
        there should no semicolon after void main().
4.
        % f should replace with % d
20.
        Predict the output:
                                                                          (2 Times)
        Printf ("*/n**/n***);
Ans:
21.
        Trace the error in following code:
       float r:
       clrscr();
       printf("Enter radius");
       scanf("%f,r);
Ans:
       3 errors
1.
       Float r: should be like this float r;
       There should be a format specifier in scanf statement i.e. scanf("%f,&r);
7
3.
       double Quotes hould use i.e Scanf("%f", r)
22.
       List some important function for input
                                                                          (4 Times)
Ans:
       scanf() gets()
       Getch ()
                   getche()
23.
       List out different types of format specifier.
Ans:
       i. Integer format specifier
       ii. Character format specifier
       iii. Floating-point format specifier
24.
       Trace the error in following codes:
       include<stdio.h>
       void main vaid
       Printf("%c", :Pakistan");
       getch ();
       3 errors
Ans:

    There should be # sign before header file. i.e. #include<stdio.h>
```

25.

Ans:

26.

27.

28.

29.

30.

31.

32.

Ans:

45

```
2. Vaid spell are not correct. They should be like this 'void' & they should be in ( )
      There should not format specifier in print statement. i.e. Printf("Pakistan");
      Trace the error in the following code.
      #include <stdio.h>
      Voi main (void)
       Printf("Hallow world")
       3 errors

    Spell of void is not true. It should be like this Void main (void)

       The starting braces after main function is missing.
       Print statement should be terminated with semicolon. Printf("Hallow world");
       Define the format specifier used in printf( ) and scanf( ) functions.
       Format specifier is used to specify the format according to which values will be
       read and displayed. It determines the data type of variable, field width and
       format of the value. It is denoted by '%' sign.
       Trace the output
       #include<stdio.h>
       Void main (void) {
       Int x = 10:
       Printf("%d", x%2);
Ans:
       Trace the output
       #include <stdio.h>
       Void main (void)
       Int x = 1;
       Int y = 2;
       x = x+1:
       y = y + x;
       printf("%d/n%d",x,y);
Ans:
       Trace the errors in the following code.
       #include<stdio.h>
       Void main (void)
       Int x= 4
       Y = x + 10
       Printf("%d",x+v);
       2 errors
Ans:
       There should be semicolon after int x=4. i.e. int x=4:
       There should also be semicolon after Y = x+10, i.e. Y=x+10:
       Write down the name of any four escape character provided by C.
Ans:
               In is used for insert a new line in output.
       2.
               It the escape sequence is used to insert a tab in the output.
       3.
               \b is used to insert a backspace in the output.
               \' is used to insert a single quote in the output.
       What is standard input?
       The input given by the keyboard is known as standard input. The keyword scanf is
Ans:
       used to input data from keyboard. The syntax of standard input is as follow:
       Scanf("format _specifier", & variable_name);
       Find the error in the following code:
       main ();
        Printf("Hellow"):
```

float area, r, clrscr ();

print f ("Enter radius): scan f ("% f" , r);

46

```
2 error.
  Ans:
                 Main () cannot be used without Void.
         1
                 Main () should not terminated with semicolon (;).
         Trace the output of the following code:
  33.
         void main ( )
         Int t=10;
         printf("22/t");
         printf("666");
               666
  Ans:
                                                                                (2 times)
         Write the syntax of printf () statement.
  34.
         The syntax of printf () statement is as follow:
 Ans:
         printf(format/control string, argument list);
                                                                              (4 Times)
         What is an escape sequence? Give example.
 35.
         Escape sequences are special characters used in format string to modify th
 Ans:
        format of the output. These characters are not displayed in the output. These
        characters always begin with backslash "\". Backslash is known as escap
        character. i.e. \b, \r, \n etc.
        Trace the errors in the following code (2 times)
 36.
        #include <std.n>
        Void main (Void)
        Printf('Paksitan');
 Ans:
        2 errors
               Name of header file is not correct i.e. stdio.h
               String Pakistan should be in " " double quotation.
        Predict the output of the following
37.
        void main ( )
        Int x=1:
        x ++:
        printf("%d",x++);
Ans:
38.
        Predict the output of the following code
       void main (void)
       Printf("Hello/"World");
       Hello World
Ans:
39.
       What is the use of "scanf ()" function? Write its syntax. OR Define Scanf()
       function?
                                                                          (3 Times)
        Scanf is used to get input from the user. The input is stored in a variable in a
Ans:
       specified form. Syntax:
       Scanf(format string,&var1,&var2,&var3,......&var n);
       Predict the output of the the following
40.
       int a=9:
       a=a % 4:
       printf ("/n % d is Result ", a);
Ans:
41.
       Trace out errors in the following code:
```

```
Ans:
       2 errors:
              Variable declaration should close with semi colon. i.e. float area, r;
              There should be address operator in scanf statement. i.e. scan f ("% f", &r);
       1.
       2.
       Predict the output of the following code
42.
       void main (void)
       Printf("World");
Ans:
       World
43.
       Find the error in the following code.
       # include (conio.h);
       Include (stdio.h);
       Void main ( )
       Printf("OK"):
Ans:
       2 errors
              First header file should not terminate with semicolon.
               There should be '#' before the second header file and shouldn't terminate
       2.
               with semicolon. i.e. #Include (stdio.h)
44.
       Find the ouput of following code.
       Int a,b,c;
       a=b=c=6:
       a=4;
       b=a:
       c=2:
        Printf("%d%d%d",a.b.c):
Ans:
        442 mean 4 4 2
        Find the output of the following code.
45.
        Printf("Pakistan/n is an/n Islamic /n country");
        Pakistan
Ans:
        Is an Islamic country
46.
        Find the error in the following code
        void main ();
        Print(OK)
        3 errors
Ans:
               There should not semicolon after main function.
        1.
        2.
               Print is not any keyword in C. it should be printf.
               Printf(ok) should terminated with semicolon':'.
        3.
        What is the control string in printf function?
47.
       control string is a message display in the prinf statement. It usually give the
Ans:
        message to the user to input or output data on screen. i.e.
               Printf("your marks are %d and grade is %c",m,g);
        The message "your marks are %d and grade is %c" is format string.
        Trace the errors in the following code:
48.
        #indclue (std10.4)
```

void main (void); { x=5:

z=x+y printf("%d", z); Ans: 3 errors

v=6:

Name of header file is not correct. It should be stdio.h. 2.

Void main should not terminate with semicolon.

```
12th Class
       Z=x+y should terminate with semicolon. i.e. z=x+y;
3.
        Variables are not declared
4
```

Write output of the following code: 49. Int x= 4* 5/2 +9; Print f ("%d";x);

19. Ans.

Trace the error in the following code. 50. Void main() { x=20; v=40;

print f f(%d"; z)} Variable x,y,z are not declared. Ans. Semi colon is missed after printf statement. ii.

Double quotation mark is missing before %d. Write the output of the following code. 51. Int a,b,c;

a=5; b=10: c==a+b; printf ("The sum of a+b=%d",C);

The sum of a+b=15

Ans.

55.

Ans.

56.

x+y=z

What is the purpose of f gets () function. 52.

It is used to input string value from the user. The input is stored in a stri Ans.

variable. The user can enter any types of data. Compare getch () and getche () functions. OR getche() function? (2 Times) 53.

```
Ans.
                 Getch () function
                                                      Getche () function
       This function is used to input single
                                             This function is also used to input
       character from user.
                                 It is an
                                             single character from user. It is also
       abbreviation of get character. When it
                                             an abbreviation of get character. But
       is executed the character entered by
                                             when it is executed the character
       user is not displayed on screen.
                                             entered by user is displayed on
                                             screen.
54.
       Trace output of the following code.
```

int x=0, y=5, x=4; x=y+z*5; printf("Result = %d",x);

Result = 25 Ans. Find error in the following code:

Void main (); Print ("Pakistan");

Semicolon after void main () is wrong. No semi colon exists after void main () in C Language.

There should be printf instead of print. Trace output of the following code. Int a = 5, b=10;

Int c = a+b *2; Printf ("The output is %d",c); Ans. The output is 25.

Trace the errors in the following code:

57.

```
#includes<stdio.h>
       void Main ();
       Printf ("Hello World");
              Write include instead of includes.
Ans.
              M should be small in Void Main ().
       ii.
              There should be no semi colon after void main ().
       iii.
       Determine the output.
58.
       Char w1,w2,w3;
       w1= 'A' :
       w2 ='B';
       w3='c';
       printf("%cw2%c",w1,w3);
       AW2C.
Ans.
       Determine the output.
59.
       Int x= 3:
       Printf("%d%d", x,2*x);
Ans.
       Write the output.
60.
       Float f=3.14159;
       printf("8.4f"f)"
           3.1416
Ans.
       Find out two errors from following code.
61.
       If (x==v)
       Printf("hello")
Ans.
               Braces are missing.
               Statement termination (;) semicolon is missing.
62.
       Find output from following code.
       int price = 10;
       if (price==10)
       {printf("%d",price);
Ans.
       10
63.
       Write output of the following code.
       Int n=5;
       printf("%,d%d",2 x x,3 x x);
Ans.
       1015.
       Write output of the following code.
64.
       int a,b,c;
       a = 15:
       b=10:
       c=a+b:
       printf("c=%d",-c);
       24
Ans.
       Find errors in the following code.
65.
       #include<stio.h>
       Void main ()
       Int x = 10, y=13;
       x = ++v;
       y=x++;
       printf("%d%d",x,y);
```

7

Ans. i. in line 1, Stio.h is wrong. It should be stdio.h

ii. In line 2, Void is wrong. It should be void because is case sensitive.

66. Name any four format specifier provided by c.

Ans.

1	%d	Used for signed decimal integer value
li	%f	Used for signed float or double value.
111.	%с	Used for character value.
lv.	%s	Used for strings.

```
67. Describe\ n Escape sequence.
```

Ans. This escape sequence is used to insert new line in output. For example printf("55"); printf("55"); output will be 555

68. Determine the Output:
Print f ("777\n");
Print f("77"):

Ans. 777

55

69. Determine the Output: int num = 10; num * =5;

print f("%d", num);

Ans. 50 70. Find the Errors:

yold main () ; { int x=5;

print f ("%d",x);

Ans. i. There should be no semicolon (;) after void main () ii. There should be no space int x=5;

iii. There should be no space between print and f. What is the output of following code?

71. What is the output of a Ans. Char Ch 1 = 'A';

Ch 1+2=2; Printf ("%C", Ch1);

Ans. A+2

72. Find Errors in the following code Void main ()

Float n1=3.5, n2=4.1; printf("%d\t%d",n1,n2);

Ans. i. C is case sensitive so there should be void instead of Void.

Braccs for open and close are wrong.

73. What is format specifier?

Ans. Format specifier is used to specify the format according to which values will be and displayed. It determines the data type of variable, field width and format of value. It is started with the % symbol. Different format specifiers are:

%d : used for signed decimal integer %f : used for signed float value

%c : used for character value

```
What is output of the following code?
 74.
        int x,y=5;
        x=V++;
        printf("%d\n%d",x,y);
 Ans.
        Write the code to input a value for an integer n?
 75.
        scanf ("%d", &n);
 Ans:
        Write a single C- statement to print the following output?
 76.
        Hello to
        The World of
       C Programming
        printf ("Hello to \n The World of \n C Programming");
Ans:
       Define standard output?
77.
       The process of getting something from computer is known as output. The output is
 Ans:
       mostly displayed on the monitor. The term standard output refers to the output
       displayed on monitor. The result of the program is the output of that program.
       Determine the output:
78.
       printf ("Hello \n World \n Pakistan");
Ans:
       World
                                                                                         MA
       Pakistan
       Determine the output of the following code:
79.
       int N= 65;
       printf ("%c", N);
Ans:
        What is the output of following code segment?
80.
        float f = 1.34129;
        printf ("f= %7.3f", f);
        f = 1.341
Ans:
        Write a single C- statement to print the following text?
81.
        Hello to
        The World of C
Ans:
        printf ("Hello to \n The World of C");
82.
        Determine output of the code:
       int x = 15;
       int y = 5;
       printf ("%d \t %d", x%y, x/y);
Ans:
       0
       Determine the output of following code?
83.
       int a = 10;
       int b = 12:
       int c;
       c=a+b;
       printf ("c=%3d", --c);
Ans: c 21
84.
       Find errors in the following code segment:
       void main (void);
       {int c=7
       Printf ("%f", c;
Ans:
       i) The semicolon at the end of first line is invalid
       ii) The semicolon is missing at the end of second line
       iii) The format specifier "%f" must be replaced with "%d" in third line
```

iv) The closing bracket) is missing after the variable c in third line

52

85.	Differentiate between printf and		to be supplied to make.
Ans:	The printf function is used to disp		
	text, constant or values of variable to get different types of inputs for	rom the user. The in-	out is stored in variables in
	specified format.	ioni the user. The in	out is stored in variables in
86.	Write a C- statement which scar	s three floating noir	t variables a, b and c in a
00.	single line?	is timee mouting poin	at intelligeness of W
Ans:	scanf ("%d %d %d", &a, &b, &c);	Attitude and the second	the Reserve to the Date of the
87.	Determine the output of the folio	wing code:	min to startle a think the
•.	float f = 3.14159;		or shall Arm
	printf ("f= %4.2f", f);	· ·	Subline - The
Ans:	f = 3.14		gentime 1 2
88.	Determine the output of the follo	wing code:	Tales destination of the
	float f = 6.3159;		The District manuard unit
	printf ("f= %3.2f", f);		Chapte In Late 18
Ans:	f = 6.32 ·	and adjusted by	Devis Est VIII
89.	Write the purpose of "%c" format	specifier?	dinor no tayardan'i Allan
Ans:	Format specifier "%c" is used for si	ingle character values	9700 adt 40 at 41 au
90.	Rewrite the code after correction	C. BURNES NOT IN DUI	ON AL CHARLET LEVEL COM
	float f = 3.14		
	printf ("%d", f;	200	100000000000000000000000000000000000000
Ans:	Correct code is:	The second	a viva a constant and a constant
	float f = 3.14;		Zn = S e H S h
	printf ("%f", f); What is the output of following co	de segment?	vat a 1 below
91.	printf ("%.3f", 1.2);	de segment.	
	1.200	a commented to	and a series of the Alexander
Ans:	Write a single printf statement to	display the following	text:
32	C:\My documents	Waster Comment	a toy you find a
Ans:	nrintf ("C:\\Mv documents\");	7 May 11 A	169 1 - 1 - 1 - 1
93.	What will be the output of following	ng code?	are I waste adam to
	printf ("Book\n Reading\t is good	habit");	or pilladi.
Ans:	Book		and a second
	Reading is good habit		
	C	0/C) OF CHAPT	ED Castiro steel . (1)
	OBJECTIVES (MC	US) OF CHAPI	EK-11
	ACCORDING TO ALP S	MADT CVII AD	115 2020 21
	ACCORDING TO ALP 3	IVIANT STELAD	03 2020-21
1.	How much a conditional operator to	akes operand?	A CONTRACTOR OF THE PARTY OF TH
(A) 4	(B) 3	(C) 2	(D)1
1/1/ 4 2.	In if statement, false is represented	d by	(5 Times)
	(B) 1	(C) 2	(D) 3
(A) 0	When a relational expression is fals		(2 Times)
3. (A) zer		(C) less than 0	(D) two
	Which of the following is used for n		
6. (A) if-e		(C) nested if	(D) switch
M) 11-6	Another term for a computer makir		(2 Times)
		(C) repetition	(D) ineration
A) seq	uential (B) selection Which programming structure mak		The state of the s
		(C)Sequence	(A Times)
	itional (B)Repetition Relational operators allow you to		(D) Decision
		(C)Multiply	(4 Times)
A) Add	Which programming structure exec		
	sence (R)Repetition		the control of the co

		calund Paper(ALP Smart Syllabus-2020)
12th Class	53 A Plus	Computer Solved Paper	ALP Smart Syllabus-2020) (2 Times)
Which	of the following is equivalent	to (P>=q)?	(D) !P <q< td=""></q<>
9. WITCH	(B) ! (P <q)< td=""><td>(C) P>q</td><td>(5 Times)</td></q)<>	(C) P>q	(5 Times)
	ase block ends with:		(D)case else
(A) end select		(C) break	(2 Times)
11 The co	inditional operator is an alter	native of:	ONone
(A) If	(B) if else will be the output of : (6	(C) Nested if	printf("XYZ");?
12. What	will be the output of : (6	>7)? Print f("ABC /	(D)XYZ ABC
(A) ABC	(B)XYZ	(C) ABC XYZ	ession:
13. Which	(B)XYZ is an example of multiple bra	nches from single cap	(D) for loop
(A) if stateme	(b) switch statement	(C) Willie is a	
		nguage	(11 times)
14. Which	keyword is not used in switch		(d)switch
(a) default	(b) if	(c)case	142 times
15. An ex	pression that uses a relational	operator is known as	
(a) Serial Exp	ession	(b) Arithmetic Expres	OH
(c) Relational		(d) Sequential Expessi	
(a) if	is the simplest selection stru (b) switch	(c)if-else	(d)Nested-if
17. What	operators are used to join tw		(11 times)
(a) Relational	(b) Logical	(c) Assignment	(d) Comparison
	tatement, true is represented	by:	(11 times)
(a) 0	(b) 1	(c)2	(d)3 (11 times)
	onal operators allow you to	number:	
(a) compare			(d)divide
	=4 and B=4 which expression		(d) +=
(a) +	(b) =	(c) ==	(0) 1-
	hree programming structures of the p	are:- (b) Process, Decision,	Alternation
(c) Function		(d) Relation, Compar	ison, process
	h statement is an alternative		(2 Times)
(a) nested if-		(c) for loop	(d) while loop
	h operator in C is called a tern		(2 Times)
(a) if	(b) if	(c) ++	(d)()
	her term for conditional opera		(2 Times)
(a) ternary	(b) binary	(c) byte	(d) for
	Itional operator takes:	t and the	7 n c ()
(a) one oper		(c) three operands	(d) four operands
26. The c	ase block ends with:		
(a) End selec	t (b) End Case	(c) break	(d) Case Else
27. Al. if	statement inside another if st	atement is called:	
(a) If stateme	ent (b) if-else statement	(c) Nested if statemer	nt (d) Switch Statement
28. The C	perators to compare operand	ds and decide if the rel	ation is true or false:
(a) Arithmeti	c Operators	(b) Logical Operators	
(c) Relationa	Operators	(d) Syntax Operators	
29. What	does a compound condition	use to join two condition	ons?
(a) Relationa	l Operator (b) Relational Resu	lt (c) Logical Result	(d) Logical operator
30. Grap	hical representation of a prog	ram is called:	
(a) Logical ch	nart (b) Binary chart	(c) Flow-chart	(d) E-R chart

				ANS	WERS	1000			
1	2	3 .	4	5	- 6	7	8	9	10
C	A	Α	A	В	A	В	Α	В	C
11	12	13	14	15	16	17	18	19	20
В	В	В	В	C	Α	В	В	A	C
21	22	23	24	25	26	27	28	29	30
Δ	Δ	C	A	. C .	C	C	-	D	C

SHORT QUESTIONS OF CHAPTER-11 ACCORDING TO ALP SMART SYLLABUS 2020-21

Define selection structure enlist its different types. A selection structure selects a statement or set of statements to execute on the basis Ans:

of a condition. There are two types of selection structures. These are as follows: if-else

ii. switch-case structures.

What is switch () structure? 2.

Switch statement is another conditional structure. It is good alternative of nested Ans: if-else if statements can be used easily when there are many choices available and only one should be executed.

Amount = (x>y)? x y : x+y: convert this statement with conditional operator to an equivalent if-else statement. (2 Times)

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```
Ans:
       If (x>y)
       amount = x* v:
       else .
       amount = x+v:
```

Write an expression C-language for the following: number is divisible by 3. 4

if (n%3 = =0).

Write an expression in C language for "Numeric is divisible by 5". 5.

if (n%5==0). Ans:

Ans:

Define Control structure. (6 Times) 6.

Ans: Control structure is a structure which is used to control the flow of execution of the program. The basic control structures for writing programs are sequence, selection and repetition.

What will be output of the following: 7. int x=5, y=10;

```
if (x>y)
v=2;
v=v+1;
printf("value of y= %d",y);
```

value of y 11 Ans:

Trace the error in the following: 8. void main()

```
Inta.b:
a = -10
a= 40
if (a<0);
b= sqrt(A);
printf ("Result = %f',b);
getch();
```

5.

10.

```
Ans:
       5 Errors

    a=-10 should be terminate with semicolon (:).
```

a=40 should also terminates with semicolon (:).

There should no semicolon after if statement.

3. in printf statement ending "is missing. 4.

There should h space between a.b.

What happens if break is missed in case of block?

If break is not used, all case blocks coming after matching case will also be Ans: executed. Which will take more time to execute a program.

What is the output of the following code?

```
Int x=1:
Int y= 2;
```

z = 3:

if (x==y) || (y==z) || (z ==2) printf ("Yes")

else printf("No")

Ans:

Define sequential structure. OR How instructions are executed in sequence 11. (2 Times)

In sequence structure, the instructions are executed in the same order in which Ans: they are specified in the program. The control flows from one statement to other in a logical sequence, i.e.

Sequential Logic Structure



Write the syntax of "Switch" statement. switch (expression) 12.

Ans:

case val 1: statements: break:

case val 2: statements:

break:

case val n: statements;

break:

default: statements;

What is the output of given code? 13.

```
Int b=6, c= 5:
If (b++==7&&++c=5)
```

printf("d/n",++b)

a=6;

```
else
        printf("%d/n",b--);
Ans:
        Write syntax of conditional structure.
14.
                                                                            (2 Times)
        (condition)? True-case statement: false-case statement;
Ans:
        Write syntax of if-else statement.
15.
        if (condition)
Ans:
        statement:
        else
        statement:
        Trace the errors in the following code.
16.
        Void main (): {
        Int a=2
        If (a=1)
        Printf ("OK")
        else
        printf("Cancel").
        getch ();}
        5 errors
Ans:
        There should not semicolon after void main ().
1.
2.
        Int a=2 should terminated with semicolon i.e. int a=2;
        Printf("ok") should also terminated with semicolon. i.e. Printf ("OK");
3.
        printf("Cancel")should also terminated with semicolon. i.e.printf("cancel");
4.
        if (a = 1) should be if (a = 1)
5.
17.
        What is the output of the following code.
        int m,n;
        m=0:
        n=m:
        if(m==n)
        printf("BWP");
        printf("LHR");
Ans:
        BWP
        Write two rules of using Switch Case in C Program.
18.
        1. The case label must be integer or character.
Ans:
        2. Each case label must be unique.
        3. Switch statements should only have one default label.
       Trace the errors in the following.
19.
       Void main ( )
       int x, z;
       if (x>y);
       Print f ("x is largest")
       Else
       Print f ("y is largest");
       getch ();
       3 errors
Ans:
       Starting delimiter is missing.
1.
       Condition should not terminate with semicolon.
2.
       There should not space between PrintF.
3.
       Trace the output of the following codes:
20.
       int a=4, b=2, c=5;
       if (a>b)
       a=5;
       If (c==a)
```

```
a=7;
      printf ("%d",a);
Ans:
      Define conditional operator? Write its syntax.
21.
      Conditional operator is decision making structure. It can be used in place of simple
Ans:
      if-else structure. It is also called ternary operator as it uses three operands.
      (condition) ? true-case statement; false-case statement;
      Predict the output of the following code:
22.
      if (4%2= =0)
      printf ("Programming makes the life interesting /n");
      printf("Programming is difficult to learn");
      Programming makes the life interesting.
Ans:
      Trace the errors:
23.
      int p=20
      if(price = 20)
                                                What is the error in the following
      price =0:
                                                                ANT W DIEN SET
      else
      price =2.
      2 errors
Ans:
             Int p=20 should terminate with semicolon.
      1.
             Price=2 should also terminate with semicolon.
      What is compound condition statement?
24.
Ans:
      A statement in which more than one condition is evaluated is called compound
      condition operator. It is used to execute a statement or set of statements by
      testing many conditions.
       Trace the error in the following code:
25.
       void main ()
                                                     free in the order of the trade to the trade
       Int x=0
       If (x=1)
       Printf("Hello");
       printf("Bye);
       2 errors
       Int x=0 should terminate with semicolon.
       Bye should also close with double quotes. i.e. "Bye".
26.
       Predict the output for the following code:
       int a,b,c;
       a=10:
       b=3:
       if(a\%b = = 1)
       c=0;
       else
      c=1:
      printf("%d"c);
Ans:
27.
      Why a default label is used in switch statement?
Ans:
      The default label appears at the end of the all case labels. It executed only when
      the result of expression doesn't match with any case label. Its use is optional. The
      position of default label is not fixed.
28.
      Write output
      Int p, q,r;
      p=10;
```

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at called the country of the write and

```
a=3:
If(p%q==3)
r=0:
else
```

r=1: prinft("%d",r); Write down the output of following code. Ans:

29. char ch='a':

switch(ch) case 'a'

printf("A"); Case 'b': printf("B"); Ans:

Ans:

Ans:

34.

What is the error in the following code? 30. int x=10, v=20; if (x>10&v<30) printf("%d",x+y);

1 error: there should be as in place of single & in if statement. Ans: What is the use of if-else statement? 31. if-else statement can be used to choose one block of statements from many blocks

of statements. It is used when there is many options and only one block of statements should be executed on the basis of a condition. 32. What do you know about "if" statement? If is a keyword in a C language. If statement is a decision making statement. It is the simplest form of selection constructs. It is used to execute or skip statement of

set of statements by checking a condition. Syntax: If (condition) Statement:

33. Find output: int p=3, q=5; if ((p>q)||(p!=4))p=p+1; else

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p=p-1 p=p*2; print f ("p = % d" ,&p); the part that all art a new engine at Trace out errors in the following Code:

Void main () int R: R=17 If (R>0)

R = R*3.14*3.14; Print f ("the value of R is = % f;R); getch () provided and are a second and a second a second and a second

- 2 errors: But to a factor had been been as had Ans: 1. R=17 should terminate with semicolon.
 - 2. Printf ("the value of R is = % f;R); should be like this Printf ("the value of R is = % f",&R);

```
Smart Syllabus-2020)
      Find out errors:
     # include <Stdio>
     Void main ( )
      If (50>20) then
      Printf ("Islamic Country");
      Getch ()
      5 errors
ins:
      Name of header file is not correct. it should be <stdio.h>
      (Should use in place of [.
      Then should not use after condition because it is syntax error.
      Getch() should have small g. i.e. getch().
      } should use in place of 1.
      Trace error:
      Void main ()
      int a=2
      If (a==1)
      Prinf("OK");
       Printf("Cancel");
      Getct();
ns:
      3 errors
                                                                   Whatermanilatt
      int a=2 should terminate with semicolon.
      Else should not have capital E. i.e. else
      getch should use inplace of Getct().
                                                              France Erectr. on the ligh
      Trace output:
      int a=5, b=10;
      if a>b
      printf("Low Triangle");
      else
      Printf("Huge Triangle");
ins:
      Huge Triangle
      How does selection ......
     In selection structure we select a statement by using condition. If condition is true.
ns.
      select that statement otherwise, select other statement, i-e.
                       Statement
                                                             Statement
     List any four types of control structure.
                                           Selection
     i)
             Sequential
                                   ii)
     iii)
             Repetition
                                    iv)
                                           Function call
     How instructions are executed in repetition structure?
```

s. In repetition structure, instruction will execute until condition is true. When condition is false, instruction will not be executed and control will transfer outside the loop.

```
60
41.
       Define relational operators?
       Logical operators are used for logical operations. i-e. <, >, <=, >=, 1= etc these a
Ans.
       used in condition operators.
42.
       Write three advantages of switch statement in c-language.
Ans:
       i. The switch statement is alternate is alternative of nested if-else statement.
       ii. It can be used easily when there are many choices available and only on
       should be executed.
       iii. The switch construct is useful in the case where selection is based on the
       value.
43.
       Determine the output.
       int x =1.v=2.z=3
       if ((x==y)(y==z)(z==2))
                                         产品是各种基础的产品。 (c) 为 为 为 (c) (c)
       print f ("yes");
       else
       print f ("NO");
Ans.
              Starting and closing braces are missing.
              or should be replaced by II.
       Determine the output.
       int x =50:
       int v=25:
       if (x\%y==0)
       printf("Result = %d",x%v);
       else
       printf ("No result"):
Ans.
       Result =O
45.
       Define nested if statement.
Ans.
       An if statement within an if statement is called nested if statement. In nester
       structure, the control enters into the inner if when the outer condition is true.
46.
       Trace Errors in the following Code
       void main ()
       {int x=3
       int y=4;
       If (x<v):
       printf("%d",y):
```

There should be semicolon after int x=3.

Write the error from following code:

Use void instead of Void.

Write the output of the following code.

Void main (); {int x=10; if {x==10} X++ else X--;

int x,y,z=1; x=y=3;

else

Yes.

if (x==y) || (y<z) printf("Yes");

printf("NO");

There should be no semicolon after if statement.

There should be not semicolon at the end of void main ().

Statement termination should be after x++.

After printf statement, colon(:) is wrong. There should be semi colon (;).

Ans.

47.

Ans.

Ans.

```
Write output of the following code.
                                                             (2 Times)
49.
      int p=3; int q =5;
      if(p>q)
      printf("%d",p);
      printf("%d",q);
Ans.
      Determine the output of the following code:
50.
      if (1!=2)
      printf("OK");
      else
      printf ("Correct it");
      OK
Ans.
      Trace the output in the following code:
51.
      If (7!=10)
      printf ("Hello")
      eise
      printf("Welcome"):
      Hello.
Ans.
      Find errors.
52.
      Void main (void)
                                            presser (2.4m)). Otherwise, it sauces
      int x=10:
      if (x=10)
      printf("True");
      end if
             if (x=10) is wrong the correct way is if (x==10)
Ans.
             Void is wrong. The correct is Void().
      Define compound statement?
53.
      A set of statements written in curly brackets { } after if statement is called
Ans:
      compound statement.
      Convert the following conditional expression into if else statement:
54.
      X < 0? y= 10: z= 20;
      if (x<0)
Ans:
      y=10;
      else
      7=20:
      Determine the output of the following code:
55.
      if(1! = 2)
      printf ("OK");
      else
      printf ("Correct it"):
Ans:
      OK
      Define condition?
56.
      A condition is an expression that evaluates to true (1) or false (0).
Ans:
      Determine the output of the following code: M 01 341080000
57.
      if(1==2)
      printf ("Hellow");
      printf ("Correct it");
      Correct it
Ans:
      Determine the output of the following code segment:
58.
      int p, q, x;
      p= 21; q= 4;
      if (p % q == 4)
      x= 0:
      else
```

```
printf ("x= %d", x);
 Ans:
        x= 1
        Write a C- statement using conditional operator that checks the values of to
 59.
        variables x, y. It assigns the smallest value to the variable "min".
 Ans:
        min = (x < y)? x: y;
 60.
        Determine the output:
        If (7% 3==0)
        printf ("Punjab");
        else
        printf ("Sindh");
 Ans:
        Sindh
 61.
        Find the error:
        void main ()
        int v = 10:
        IFF (v==5)
        Printf ("%d" v);
        i) The word IFF must be replaced with if
 Ans:
       ii) The comma is missing before the variable y in fifth line
62
       Write a C- statement that assign 1 to the variable y if the value of variable x
       greater than 0. Otherwise, it assigns -1 to the variable y.
Ans:
       if (x > 0) y=1:
       else v = -1:
63.
       What will be the output of following?
       char c= 'a':
       switch (c)
       case 'a'
       printf ("a"):
       default:
       printf ("Not a"); R she a protection of the second
Ans:
       aNot a
64
       Why break statement is used in a "switch" structure?
Ans:
       The break statement in each case label is used to exit from switch body. If break
       not used, all case blocks coming after matching case will also be executed.
       Find the output of the following code segment:
65.
       int x= 10:
       (x%2==0 ? printf("Even"): printf ("Odd"));
       Even
Ans:
                  LONG QUESTIONS OF CHAPTER-11
         ACCORDING TO ALP SMART SYLLABUS 2020-21
```

x=1:

Write a program that inputs a character and determines whether it is a vowel of 1. consonant. (2 Times Write a program in C-Language that inputs a number and finds out whether is ever 2.

or odd. (2 Times Write a program in C-Language to accept a year from the keyboard. Find out it is "Leaf

3. Year" OR "Not Leap Year. Write a program in C that inputs the number of the month of the year and display 4.

the number of days of the corresponding month using if - else - if statement. (e.s. if user enters 2, it will display 28 or 29) (2 Times

OBJECTIVES (MCQ'S) OF CHAPTER-12

ACCORDING TO ALP SMART SYLLABUS 2020-21

A loop with	nin a loop is called:		(4 Times)
A) nested loop	(B) inner loop	(C) outer loop	(D)none of these
. This statem	ent causes a loop to		(2 Times)
) exit	(B) terminate		(D) all of these
What is the	final value of X after	evecuting the follow	
For (int x=0		executing the follows	A . 2
4)0	(B) 4	(C) 5	(D)6
	ion of loop is known a		(7 Times)
) iteration		(C)circle	(D)duration
	(B) cycle		
	ne following loop is av		
) while-wend	(B) for-next	(C) sequence	(D) do-while
while loop	is also called:	(0)	(4 Times)
counter loop	(B) conditional loo	p (C) wend loop	(D) ineration
A special va	alue that makes the en	nd of a list of input da	ta is called:(2 Times)
terminal value	(B) sentinel value	(C) loop control va	liue(D) input value
Which state	ement is used to move		
continue	(B) break	(C) switch	(D) default
Semi Colon	is placed at the end of	of condition in	(4 Times)
switch		(C) while loop	(D) do-while-loop
A loop cou	nter can be defined as		Syntax
The final value	of a loop		counts loop iterations
the initial value	of a loop	(D) The step value	
If Voll want	a user to enter exactly	y 20 values, which loop	would be the best to
while	(B) Do-while	(C) infinite	(D) FOR
Which is a	loop statement?		(4 Times)
if Which of al	(B)if-else	(C) switch	(D) for
Which of the	ne following is not a lo		
For		(C) Switch	(D) Do-while
A loop that			
multiple loop	(B) finite loop	(C) infinite ioop	(D)nested loop
	e following loop is call	ed counter loop?	100 250 100 m
for	(B) while	(C)do-while	(D)if
How many	types of loops structur	e are available in C?	(2 Times)
4		(C)2	(D)6
	(B) 3		100
In t m		language	But or assistant
Outside (p, the loop control va	riable is always initiali	zed? (12 times)
outside the prop	gram (b) i	nside the loop body	
ands loop ends	. (d)	outside the body of lo	
	ent cause the loop to	terminate early:	(14 times)
preak	(b) Terminate	(c) Exit	(d) End
A loop which	th never ends is called	:-	(2 Times)
nunning loop	(b) Continuous loop	(c) Nested loop	(d) Infinite loop
In which los	p the condition come		
while loon		o-while loop	(d) nested loop
What is at	(b) for loop (c) [oversting the code: fo	(u) nested loop
7	final values of i after	executing the code: 10	/ (ut (=1;1<5;1+=2)
In which loo while loop What is the What will b	(b) 5 (c) 6)	m (d) 9 mas andet
for twee	e the value of x after e	executing the followin	8 codes
for (x=1;x<7	(;x++)		are not took in part
5 Printf("%d"			A PERMIT
	(b) 7 (c) 8		(d) 1

23. In a 'for' statement, this expression is executed only once.

(a) test (b) initialization (c) validation (d) increment/decrement

24. What is the value of x after executing the code: for (x = 1; x < = 10; x++)(a) 9 (b) 10 (c) 11 (d) 12

25. This is a control structure that causes a statement or group of statements t

(a) Decision statement (b) Sequential (c) Loop (d) Logical

900					4.0		HIV	AA EUS	5 5				1 40 40	
-	1	2	3	4	5	. 6	7	8	9	10	11	12	13	14
-	A	C	C	A	D	В	A	A	D.	В	D	D	C	C
-	15	16	17	18	19	20	21	22	23	24	25			-57
1	A	В	D	A	D	C	В	В	В	В	C			11-11-11

SHORT QUESTIONS OF CHAPTER-12 ACCORDING TO ALP SMART SYLLABUS 2020-21

1. What is for () loop? Write its Syntax with example.

Ans: For Loop

(3 Times)

For loop executes one or more statements for a specified number of times. The loop is also called counter-controlled loop. It is the most flexible loop. All the contents are written in single line in this loop. That is why the most programmer use this loop in programs.

For (initialization; condition; increment/decrement)

Statement 1; Statement 2;

Statement N;

2. Differentiate between Counter and Conditional loop.
Ans:

In counter loop, statements are executed to a fix no. of a value. That value is known as counter value. Suppose a statement is executed for 5 times. 5 is a counter value.

Conditional loop

In conditional loop, statements execution depends upon a specific condition. Suppose a loop will terminate if user enters -1.

3. Trace the output of the following:

void main()
{
Int a, s;
s= 0;
for (a=1; a<=50;a+=3)
s = s +a;
printf("Sum = %d",s);
getch ();
}</pre>

Ans: 52

Ans:

Define sentinel control loop.

A type of loop in which execution of loop is depend on the sentinel value. The type of loop depends on special value known as sentinel value. Sentinel value indicates that the loop should continue or terminate. For example, a loop ma

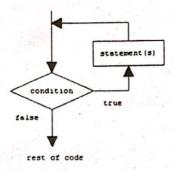
execute while the value of a variable is not -1. Here -1 is the sentinel value that is used to terminate loop.

Draw a flowchart of while loop.

65

(2 Times)

5. Ans:



6. What is output of the following code: void main (void) { int n= 1; while (n< =5) { printf("Pakistan"); n=1+1;</p>

} . getch ();

Ans: Pakistan, Pakistan, Pakistan, Pakistan.

Define go to statement.

Ans: The go to statement is used to perform an unconditional transfer of control to a named label. The label must be in the same function. A label is meaningful only to a go to statement. The general form of go to statement is as follows:

Go to label:

Define nested loop.

(2 Times)

Ans: A loop within a loop is called nested loop. In nested loops, the inner loop is executed completely with each change in the valued of counter variable of outer loop. Any loop can be used as inner loop of another loop.

9. Trace the output of the following code: void main () {

{
int x,y=5;
for (x=0;x<3;x++)
if (y>=5)
print f ("%d",x);
}

Ans: 012 mean 0 1 2

10. Trace error int x=5; int y y=x+3 printf("%d",y);

Ans: 2 error.

- int y should terminate with semicolon.
- 2. Y=x+3 should also terminate with semicolon.

8

76

Ans:

```
11.
        Trace error:
        Include<STDIO.H>
        VOID Main ();
        printf("Pakistan");
 Ans:
        3 errors
                STDIO H should be in small letters.
                VOID Main should be like this void main.
                Void main() should not terminated by semicolon.
        Predict the output of the following piece of code:
 12.
        while (i<=5)
        printf ("Pakistan");
        1++;
 Ans:
        Pakistan Pakistan Pakistan Pakistan Pakistan.
 13.
        Write the syntax of while loop, both for single statement and for multiple
        statement.
 Ans:
        For single statement:
        While (condition)
        Statement;
        For multiple statements:
        While (condition)
        Statement 1:
        Statement 2:
        Statement N:
 14.
        Predict the output from the following code
        int n:
        clrscr ( );
        for (n=5;n>=1; n--)
        prinff("%d",n);
        getch ();
Ans:
        54321
15.
        Write output
                                                                          (2 Times)
       Int x=5, y=3;
       do
       x=x*2;
       y=y+2;
       while (y<7);
       prinff("%d",x);
Ans:
       20
16.
       What is the output of following code?
       int x=10;
       for(x=8;x>=1;x--)
       printf("%d/n",x)
```

```
5
4
3
2
write the output of following Code
int x:
for (x=0; x>0; x++)
print f ("%d/n",x);
This loop will show nothing because x=0 and condition will true when x>0.
Convert following loop code into while loop code:
                                                                    (2 Times)
for (i=10;i>0; i--)
printf("i=%d", i);
int i=10;
while(i>0)
printf("i=%d",-i);
i++:
Trace output
intl,j=10;
for (i=1;i<=5; i++)
prinf("\nPakistan");
Pakistan
Pakistan
Pakistan
Pakistan
Convert the following code into while loop:
                                                                    (2 Times)
for (int i=1; i<10; i++)
printf("/nPakistan");
int i=1;
 while(i<10)
   printf("/nPakistan");
       1++;
Trace the output of the following:
int k= 0;
while (k < =5)
printf ("OK");
k++;
okokokokok
for (i=1,i<=5;i++)
printf("/n%d", i); Re-write the above program segment using while loop.
int i=1:
 while (i<=5)
```

```
printf ("/n%d",i);
       i++:
       Two uses and advantages of loop.
23.
              It is time saving. There is no need to repeat statements again and again.
              Program length becomes shorter by using loop.
       ii)
       Convert into do-while loop?
24.
       for(int n=1;n<=10;n++)
        printf("%d",n);
       int n = 1;
Ans.
       do
        printf("%d",n);
        n++;
       While (n <= 10);
25.
       Why sentinel value is used in loop?
                                                                          (2 Times)
       Sentinel value is used to control the iterations of loop. If we will not use senti
Ans.
       value then loop iterations will be infinite.
       Define while loop?
26. -
       While loop is used to repeat a statement or block of statement until give
Ans.
       condition is true.
       Syntax:
               initialization:
               While (condition)
                      Statement;
                      Increment/decrement;
 27.
        Differentiate between break and continue statement in loops?
 Ans.
        Break statement is used to terminate the execution of code. Where break is use
        that block of code terminate it execution and control comes out of that block.
        Continue is used to move the control the beginning of loop body. Until condition
        true.
28.
        What is continue statement?
                                                                          (2 Times)
        Continue statement is used to move the control to the beginning of loop un
Ans.
        condition is true.
        Convert into do while .......
29.
        for (i=1; i<=5; i++)
        printf("\n%d",i);
                                                Parente extent of 're solitowing.
Ans.
        # include <stdio.h>
        void main ()
           i = 1;
        int
        do
        printf (%d \n", i);
        i++;
        }-
        while (i < 5);
```

```
Convert following code into while loop?
for (int j= 1; j<=4;j++)
printf("%d", j);
int. j = 1;
while(j <= 4) .
Printf("%d", j);
j++;
                                       to animotical soft to most or wit off w
Define post-test loop.
                                                                  (2 Times)
It is a type of loop in which the condition is checked after executing the body of
the loop. It means that the statement in the loop will be executed at least once.
Determine the output.
Int i=1;
While (i<10)
printf("%d",i++);
123456789
Write the output of the following code:
                                                                  (2 Times)
int I.i=3:
for (i=1; i<5; i++)
printf("\n%d%d",i,j);
13
23
33
43
53
What is meant by loop?
 A statement or number of statement that are executed repeatedly is known as a
 loop. They are used to access a sequence of values.
 Determine the output.
 int x=0:
 for (x=1;x<15;x++)
 printf("%d\n",x*x);
 x++;
 1
 4
 25
 45
 81
 121
 169
                                            Squal berligstnica tap
 225
 Convert the following for loop into while loop *+//++
 int a=0:
 for (a=10;a>=1;a-)
 printf("%d",a);
 printf("\n");
 a=2;
```

(2 Times)

```
37.
       Define sentinel values.
       A special value used to terminate a sentinel controlled loop is called sentinel val
Ans.
       This value is used in loops when the number of repetition is not predefined.
```

```
38.
       Find output from following code.
       int 1,j=0;
       for(i=1;i<5;++i)
         printf("%d%d".l.i):
```

```
Ans.
        10203040.
39.
       Write the output of the following code
       void main()
       (int I:
       for(i=1;i<=3;i++)
       print f ("%d",i*i):
Ans.
       1
```

70

```
40.
       Define infinite loop.
Ans.
       A loop in which the ending condition never occurs is called infinite loop. It reper
       forever until the user intervenes to stop the loop.
```

```
int m=5:
while (m<10).
printf("%d\n",m);
m=m+2:
```

41.

Ans.

42.

i++; f=f*1;

while (i<=n);

```
Covert the following code into while loop:
int n=5 , f=1:
```

Write the output of the following code.

```
for (i=1;l<n;i++)
       f=f*1:
Ans.
       int n=5, f=1;
       int i=1
       do
       {printf("%d",f);
```

```
43.
       What is counter controlled loop?
                                                                        (4 Times)
       The counter controlled loop depends on the value of a variable known as counted
Ans.
       variable. The value of counter variable is incremented or decremented each time
       the body of loop executes. The loop terminates when value of counter variable
       reaches a particular value.
```

Write output of the following code. 44. int x: for (x=0;x<5;x++) printf("%d",x); Ans.

```
Define For-loop.
45.
```

Ans:

For loop executes one or more statements for a specified number of times. This loop is also called counter-controlled loop. It is the most flexible loop. That is why the most programmers use this loop in programs. Convert following while loop into for loop:

46. int c = 0: while (c<5) printf ("%d\n", c); c++;

for (int c = 0; c < 5; c++) Ans: printf ("%d\n", c): 47. Determine the output: for (a = 5; a<=5; a=a+5) printf ("%d", a):

Ans: What is the output of following piece of code? 48. for (k = 0; k > = 0; k++)printf ("%d\n", k);

Ans: 1 2...... infinite loop Determine the output: 49. int n= 1:

do { printf ("%d\n", n); n++;

while (n<=5); Ans: 2 3

50.

52.

Find the error: void main ()

Far (int n=1; n<=5, n++) Printf ("%d", n);

Ans: i) The word "Far" in the third line must replace with "for"

ii) The semicolon must write in third line after condition instead of comma 51. What will be the output of the following?

int c= 1; do { printf ("%d", c);

while (c++ <=4); Ans: 12345

> Convert the following code in "while" loop: for (int i = 3; i<=9; i+=3) printf ("\t %d", 1); int i = 3;

Ans: while (i<=9)

(A) intrinsic

Print f () is a:

```
printf ("\t %d", i);
i=i+3;
}

53. What will be the output of the following?
    char c = 'A';
    do
    {
    printf ("%c", c);
    c=c+2;
    }
    while (c<= 'I');
Ans: A C E G I</pre>
```

LONG QUESTIONS OF CHAPTER-12 ACCORDING TO ALP SMART SYLLABUS 2020-21

What is nested loop? Give its syntax. Explain its working with an example.

(2 Times)

(2 Times)

2. Define "for" loop. Write its syntax, Draw flow chart and explain its working with the help of example. (3 Times)

3. Write a program that display first five numbers and their sum using while loop.

4. Write a program which prints natural numbers from 1 to 100.

Functions that are the part of language are called:

OBJECTIVES (MCQ'S) OF CHAPTER-13 ACCORDING TO ALP SMART SYLLABUS 2020-21

(B) built in function (C)language defined (D)all these

	(A) built in function (B) user defined function	n (C) local function (D) keyword
	3. Memory is allocated to a local variable	e at the time of its (2 Times)
	(A) declaration (B) destruction (C	c) definition (D) first reference
1	4. Local variables are called:	(2 Times)
ï	(A) Normal (B)Automatic (C	c) global (D) none
	5. Global Variable are created in	(6 Times)
	(A) ROM (B) cache (C	C) RAM (D) hard disk
	6. The first line of function definition is k	nown as:
	(A) Function body (B)Function call (C	C) Function arguments (D) Function header
	Multiple arguments passed to a funct	ion are separated by: (3 Times)
	(A) period (B) colon (C	c) comma (D) semicolon
	C-LANG	UAGE
	8. Function prototype for built in function	n are specified in:
	(A) source files (B) header files (C	c) object files (D)image files
	Which of the following is type of func	tion available in C language:
	(A) User-defined (B) Built-in (C	C)Subprogram (D)Both a and b
	10. Another name for built-in function is:	
		3) Library function
	(C) Arithmetic function (D) Both a and b
	11. A type of function that is available as	
		3) Library
)) Both a and b
	12. The statement that activates a function	
	(a) Function design (b) Function definition	(c) Function declaration (d) Function call

raper(ALP Smart Syllabus-2020) **C-LANGUAGE** parameters. gets () function takes (b) 22) 1 (13 times) The first line of user defined function definition is: (d) 4 function argument (b) function prototype (c) function header (13 times) Function declaration is also known as function..... (d) function calling (b) Header (c) Prototype Definition (3 times) Which statement is used by function to return a value? (d) Parameters a) give (c) return (b) send (13 times) A type of function written by the programmer is known as: (d) call (c) Subroutines (b) Subprograms a) User-defined A value that can be sent to a function is known as:-(d) Built-in-function 8. (b) Automatic variable (c) Indicator a) Return value What is the variable that is used by function to receive an argument: (d) Argument (c) constant a) expression (d) function Formal arguments are also called: 20. (b) Dummy arguments (c) Original arguments (d) Referenced arguments a) Actual arguments A function does not return any value has return type: (b) float (c) void nothing (d) int The scope of variable refers to its: (c) Accessibility a) Length (b) Name The process of sending an argument to a function is called: (d) Data type (c) Delivering a) Sending (b) Filtering (d) Passing The parameters in function declaration: (b) formal parameters a) actual parameters (d) call parameters c) returned parameters The statement that activates a function is known as: (b) Function Definition a) Function Output (d) Function Call c) Function Prototype **ANSWERS** 7 4 5 2 3 8 1 9 10 11 12 13 C D C B A A В B D R B D A 17 18 19 20 21 14 15 16 22 23 24 25 D D **SHORT QUESTIONS OF CHAPTER-13 ACCORDING TO ALP SMART SYLLABUS 2020-21** What is Function Proto Type? Ans: Function declaration is a model of a function. It is also known s function prototype. It provides information to compiler about eh structure of the function

to be used in program. It consists of function name, function type and number and types of parameters. Syntax Return type function name (parameters); (2 Times) List the different types of Functions. Ans:

C language provides the following types of functions:

User-defined Functions

Built-in function.

Compare Local and Global variable.

(2 Times)

3. Ans:

Local variable	Global variable
Local variables are declared inside a function. Local variable is created when the control enters the function	Global variables are declared out any function. Global variable is created when program starts.

What is the life Time of Global variable? Global variables exist in the memory as long as the program is running. The Ans: variables are destroyed from the memory when the program terminates. These

variables occupy memory longer than local variables.

(3 Times) What is function call statement? 5. The statement that activates a function is known as function call. A function Ans: called with its name. Function name is followed by necessary parameters parentheses. If there are many parameters, these are separated by commas.

(2 Times) How a function returns value? A function can return a single value. The return type in function declaration Ans: indicates the type of value returned by a function. The keyword return is used to

return the value back to the calling function. 7. How does a function make programming easier?

A lengthy program can be divided into small functions. It is easier to write small functions instead of writing a long program. A programmer can focus the attention on a specific problem. It makes programming easier.

Describe built in function. 8.

A type of function that is available as a part of language is known as built-Ans: function or library function. These functions are ready made programs. These functions are stored in different header files. Built-in functions make programming faster and easier.

What is the life time of local variable? 9.

The time period for which a variable exists in the memory is known as the lifetime Ans: of variable. The lifetime of local variable starts when control enters the function in which it is declared. Local variable is automatically destroyed when contro exists from the function in which locally variable is created. List some benefits of using function. 10. II. Easier to maintain & debug.

Ans: i. Easier to modify.

ly. Easier to code. iii.Reusability. 11. Define the term Function?

Ans:

A function is a named block of code that performs some actions. The statement written inside the functions are executed when it is called by its name. Each function has unique name. Functions are the building block of C. They perform a specific operations according to code written inside the function.

Differentiate between Function Definition and Function Declaration. (2 Times) 12.

Ans:

Function definition	Function declaration
A set of statements that explains what a function does is called function definition. A function definition can be written in following places: 1. Before main () 2. After main () 3. In a separate file	Function declaration is a model of a function. It is also known s function prototype. It provides information to compiler about eh structure of the function to be used in program. It consists of function name, function type and number and types of parameters. Syntax Return type function name (parameters);

The set of statements which are executed inside the function is known as function

(2 times)

13.

Ans:

Define function body.

printf("*/n"),

n++;

```
hody. The body of function appears after function header. The statements are
     written in curly braces {}.
     Define local variable.
                                                                         (3 times)
14.
      A variable declared inside a function is called a local variable. Local variables are
Ans:
      called automatic variables. The syntax of declaring a local variable is as follows;
      auto data type identifier;
                                                                         (2 Times)
      What is function definition?
15.
      A set of statements that explains what a function does is called function definition.
Ans:
      A function definition can be written in following places:
                                                          3. In a separate file
      1. Before main ()
                            2. After main ()
      What is lifetime of a variable?
16.
      The time period for which a variable exists in the memory is known as lifetime of
Ans:
      the variable. Different types of the variables have different life times. Local
      variables have lifetime when control centers in the function and exist from that
      function. While global variable will remain in memory until program executes.
      Define local variables and their scope?
17.
      The variables that are declared inside a function are known as local variables. The
Ans.
      scope of these variables are inside the function in which they are declared. They
      only can be accessed in their respected function.
      What is function header?
18.
      The first line of a function, in which return type, function name and arguments are
Ans.
      given is known as function header. i-e.
             return type funct_name (arguments)
      Use of parameters in function.
19.
      Parameters are the values that are passed to a function to process the function
Ans.
       process those values and return result to main ().
       Which type of functions are the part of language?
20.
       Built-in or predefined functions are the part of languages.
Ans.
                 getch ();
                clrscr ();
       Write down the scope of global variables?
21.
       Global variables can be accessed or used all over the program. It means that these
Ans.
       variables are globally accessed from any part of the programme. Normally, global
       variables are declared before main function.
22.
       Why is function used in program?
                                                                         (2 Times)
Ans:
       The real reason of using functions is to divide a program into different parts.
       These parts of a program can be managed easily.
       What is return statement?
23.
Ans:
       The return statement terminates the execution of a function and returns control
       to the calling function. A return statement can also return a value to the calling
       function.
24.
       Convert the following code into do while loop.
       int n=1:
       while (n<=7)
       printf("*n");
       n++;
Ans:
       { int n=1:
       do
```

```
while (n<=7);
       Write errors from the following code.
25.
      #include
      void main ()
       float v=3.14
       if(Y==3.14)
       prin f ("%d",Y)
              # include is wrong. The correct structure is #include<stdio.h>
Ans:
              Semicolon is missing after float y =3.14
       iii.
              There is semicolon missing after printf ("%d",v)
       iv:
              Write v instead of Y.
26.
       Define user defined function.
                                                                         (3 Times)
Ans:
       A type of function written by the programmer is known as user defined function. It
       has a unique name, these functions are written according to the user
       requirements.
27.
       What is meant by scope of variable?
Ans:
       The area where a variable can be accessed is known as scope of variable. Variable
       scope refers to the accessibility of a variable in a given program or function. It is
       very useful to be able to limit a variable's scope to a single function.
28:
       Give an example of user defined and built-in function?
Ans:
       The examples of user defined functions are SUM () and COMPARE (). The examples
       of built-in functions are scanf () and getch ().
29
       Define global variable?
Ans:
       A variable declared outside any function is known as global variable. Global
       variables can be used by all functions in the program. The values of these variables
       are shared among different functions. If one function changes the value of a global
        variable this change is also available to other functions.
                 OBJECTIVES (MCQ'S) OF CHAPTER-14
         ACCORDING TO ALP SMART SYLLABUS 2020-21
1.
        A binary stream is sequence of:
(A) bits
                      (B)bytes
                                           (C)kilobytes
                                                                (D)giga bytes
        Which of the following is used to write a string to a file?
                                                                        (4 times)
(A) puts ()
                      (B) put c()
                                           (C) f puts ()
                                                                (D) f gets ()
       Which of the following functions is used to write a character to a file?
                                                                        (3 Times)
(A) fputc ( )
                      (B)putc()
                                           (C)fputs ( )
                                                                (D) fgets ()
       Which mode opens only an existing file for both reading and writing? (4 times)
(A) "W"
                      (B) "W++"
                                           (C) "r+"
                                                                (D) "a+"
                      file opening mode, data can only be read from an existing file:
5.
(A) W
                      (B) W+
                                           (C) r+
                                                                (D) "r"
       In text file data is stored in:
                     (B) Binary code
(A) ASCII Code
                                           (C) octal code
                                                                (D) text code
                      are file handling functions:
7.
(A) f print f
                     (B) f scan f
                                           (C) both a and b
                                                                (D) none of these
       A file is stored in
8.
                     (B) Hard disk
(A) RAM
                                          (C) ROM
                                                                (D) Cache
       An array script should be:
                     (B) float
                                           (C) double
                                                                (D) An array
(A) int
```

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C-language A sequence of characters from an input device to computer is called: (14 times) Input stream can store text only. (c) Binary stream (d) Out put binary file (b) text file (14times) In the Statement FILE *FP, the * represents to: (a) 12. (c) exe file (d) object file (b) variable (2 times) (a) 13. (a) (c) multiplication Global variables are created in (d) parameter (b) ROM (c) Hard Disk A built-in function: (d) Cache cannot be redefined (b) can be redefined (c) exit do (a) 15. (a) 16. The fopen() function uses (d) end while parameters: (b) 4 Which mode opens only an existing file for both reading and writing? (a) 17. On successfully closing a file in C, the fclose () returns: (d) "a" (a) On Successfully closing a file, the fclose () returns: (c) 1 (ONE) (d) File pointer 18. 0 (Zero) (b) NULL (a) (c) 1 (One) (d) FILE Pointer ANSWERS

1	2	2		1110	ALIV2				
1		3	4	- 5	6	7	0	0	10
В	. C	В	C	. 0	-		0;	9	10
11	12	13	14		A	С	В	A	В
-11		13	14	15	16	17	18		
В	A	A	A	A	Δ	•			1
						· A	A		

SHORT QUESTIONS OF CHAPTER-14 ACCORDING TO ALP SMART SYLLABUS 2020-21

Define EOF marker. OR How is end of Text file indicated? (3 times) A text file is a named collection of characters saved in secondary storage such as Ans:

disk. The text file has no fixed size. A special end-of-file character is used to indicate the end of a text file. It is placed after the last character in the file. It is denoted by EOF in Clanguage.

What is Text File?

A type of file that stores data as readable and printable character is called text Ans: file. A source program of C language is an example of text file. The user can easily view and read the contents of a text file. It can also be printed to get a hard copy.

Compare Binary and text stream. 3. (2 times) Ans:

A binary stream is a sequence of with one-to-one correspondence to those on the external device (i.e., no translation occurs). The number of bytes written or read is the same as the number on the external device. Binary stream can be used to transfer any type of data.

Binary Stream

Text Stream A text stream is a sequence of characters. In a text stream, certain character translation may occur (e.g., newline may be converted to a carriage return/line-feed pair). This means that there may not be a oneto-one relationship between the characters written and those in the external device.

Define a pointer. Ans:

A type of variable that is used to store the memory address of a memory cell is known as pointer. It normally stores the memory address of a variable or object. The data type of a pointer must be the same as data type of the variable whose memory address is stored in it.

What is binary stream? Ans: A binary stream is a sequence of bytes. The translation is not performed in binary stream. It exists with one-to-one correspondence to the external devices. It 78

means that the number of bytes written or read is the same as the number of

bytes on the external device. 6. Which access method can access the data directly? (2 times) Ans:

Random access method is used to access any data directly without accessing the preceding data. It does not read or write data in sequence. It is very fast access method as compared to sequential search method. 7. (2 times)

Which function is used to close a file in C language?

Ans: A file is closed by using function fclose(). The syntax of this function is fclose(file_pointer). 8.

Write the use of New Line Marker.

Ans: the ENTER key is used to move the cursor to the next line in a text editor such as notepad. A new line character is placed at the end of each line when the user presses ENTER key. The new line is denoted by \n in C.

9. What is the use of Data File?

Ans: Data file can be used to provide the input to a program. It can also be used to store the output of the program permanently, If a program will get input from a file in place of keyboard, it will get the same data each time it is executed. There will be less chance of data loss.

10. What do you mean by text stream?

A text stream is a sequence of characters. A certain character translation may Ans: occur in a text stream. For example a new line may be converted to a carriage return / line feed pair.

Describe the purpose of file handling? 11.

A file can be used to provide input to a program. It can also be used to store the Ans. output of the program permanently. If the input is given by file so there is less. chances of errors.

12. Why it is important to close a file? (2 times) Ans.

When the file is closed, the file pointer is also destroyed in the memory. The file becomes inaccessible. Closing file is automatic process, if file is not closed, operating system will automatically close it.

13. List any two ways to write text data?

Ans. Data can be write character by character. i-e. "fputc" function is used for this.

ii) Data can be written in file as a string, i-e. "fputs" is used for this purpose.

14. List two types of streams used in files? Ans.

Text stream Binary streams. 15. Define a stream.

(2 times) Ans: A logical interface to a file is known as stream. A stream is associated with a file using

an open operation. The stream is disassociated from a file using a close operation.

List three names of functions used for character input. 16. Ans:

scanf() ii. getch ()

getche()

How a file opened in C? 17.

A file pointer is declared and associated with the file to be opened. A function Ans: fopen is used to open a file. Syntax:

File_pointer =fopen (file_name, mode);

18. What is a file pointer?

File pointer is a pointer that refers to a file on the secondary storage. It is a Ans: variable of type FILE that is defined in stdio.h. It is used to access and manipulate a data file. The file pointer is associated with a file after declaration.

How is a file closed? 19.

An open file is closed by using the fclose() function. The syntax of this function is Ans: fclose (file_pointer)

Where file pointer is the file pointer that refers to the file to be closed.

20. What is meant by fgets function?

Ans: Data can be read from text file as string at a time by using fgets function. Its syntax is as follows:

fgets (string, File Pointer);